BUFFALO TECHNOLOGY AIR STATION INSTALLATION GUIDES

Address:
4030 W. Braker Ln.
Suite 350
Austin, TX. 78759

Website:
www.buffalotech.com

Email:
Sales - sales@buffalotech.com
Technical Support - info@buffalotech.com

Phone:
Sales Tel - 512-794-8533
Sales Tel - 800-688-7466
Sales Fax - 512-794-8520
Tech Support Line - 800.934.2471

TABLE OF CONTENTS

SECTION
Page

OVERVIEW FOR ADVANCED USERS…….……..…….2

1. WINDOWS 9x and *ME* INSTALLATION…….…….…..3
1.1 Installation Instructions for PCI-Adapter card.……..……..…….3
1.2 Installation Instructions for PMCIA wireless Card..……..……..……7
1.3 Installation Instructions for Client Manager……..…….. ……11

2. WINDOWS 2000 INSTALLATION……. . …..15
2.1 Updating the PCI-Adapter card driver…….…… …….16
2.2 Installation Instructions for PMCIA card.…….…….……...……...….18
2.3 Configuring Your New Lan card…….…….. ….21
2.4 Installation Instructions for Client Manager……..……..…..……..25

3. WINDOWS NT INSTALLATION…..……..….29
3.1 Installation Instructions for PCI-Adapter card……..…..30
3.2 Installation Instructions for PMCIA wireless card…….…….…….30
3.3 Installing the ESS-ID settings driver……..…….. 33
3.4 Troubleshooting……..……..…….....34
3.5 Changing Resource Settings…….…….……....….36
3.6 Installation Instructions for Client Manager…….…….…….…..38

4. CONFIGURING THE AIRSTATION STANDARD MODEL WLA-L11……...…42

5. CONFIGURING THE AIRSTATION ROUTER MODEL WLAR-L11…….…… …..46
5.1 Changing TCP-IP settings in Windows 9x or me…..……..…….....…46
5.2 Changing TCP-IP settings in Windows 2000…..……..……49
5.3 Changing TCP-IP settings in Windows NT 4.0…....…….…….……51
5.4 Installation Instructions for AirStation Manager……...…….…..53

6. CONFIGURING THE AIRSTATION LOCAL ROUTER MODEL WLAR-L11-L…..……..58
6.1 Changing TCP-IP settings in Windows 9x or me...……..……58
6.2 Changing TCP-IP settings in Windows 2000…..……..……61
6.3 Changing TCP-IP settings in Windows NT 4.0.....…….……63
6.4 Installation Instructions for AirStation Manager…….……..……..65
6.5 Instructions for PPTP setup…..……..…..……..69
6.6 Instructions for PPPoE setup……..…..……..71
6.7 Glossary of Terms used in PPPoE settings…….…….....…….……..73

7. CONFIGURING THE AIRSTATION ANALOG MODEM MODEL WLAR-L11-M……....74

8. APPLE INSTALLATION……..…….…….…….…….…….……76

Overview for Advanced Users

1. Upgrade or install the PCI adapter (for desktops) driver to **"Buffalo"** from the **"\PCIOP"** directory on your CD-ROM. Run **"\PCIOP\SETUP.EXE"** for Windows NT
2. Install the PCMCIA card drivers from the **"\PCML11"** directory on your CD-ROM .
3. Install the ESS-ID driver for Windows NT and Windows 2000 from the **"\ESSIDDRV"** directory on your CD-ROM.
4. Connect to the Airstation Access Point through **Client Manager** with the ESS-ID of "**any**" under 11mbps communication over Airstation. You can also use the last six characters of the MAC address (on the back of the AirStation) with the word "**GROUP**" e.g. 8A909GROUP
5. Install the TCP/IP protocol on your Computer if it has not yet been installed and assign a static IP address accordingly to connect to the Airstation Accesspoint
6. Activate your browser and **disable the proxy** or **add the IP address of the Airstation Accesspoint** into the exceptions.
7. Connect to the **Web Admin** screen through the browser with the default IP address of your Airstation Accesspoint.
   - WLA-L11 1.1.1.1
   - WLAR-L11 1.1.1.1
   - WLAR-L11-M 1.1.1.1
   - WLAR-L11-L 192.168.0.1
8. Click **Custom setup** and input the User Name **"root"** with no password.
9. Under **Basic Setting** use **Automatic IP Assignment by DHCP Server** if your ISP provided a Dynamic address or use **MANUAL** if your ISP provided a Static address and then click **Set**
10. In order to set the Airstation Accesspoint to be a DHCP Server click **Automatic IP Assignment Setup** under **Custom setup** on the left and select **Use Automatic IP Address Assignment,** otherwise select **Not Use**
11. Click **Set**
12. Please use the setup guide or manual for any additional setup information
13. Visit our website at www.buffalotech.com for latest driver and firmware updates

1. WINDOWS 9x and *ME* INSTALLATION

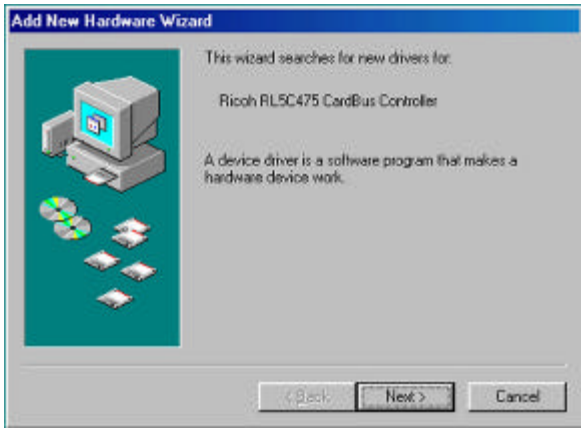
1.1 Installation Instructions for PCI Adapter Cards

If you have a laptop, skip this instruction and go to the Installation Instruction for the PMCIA Wireless Card on page 6

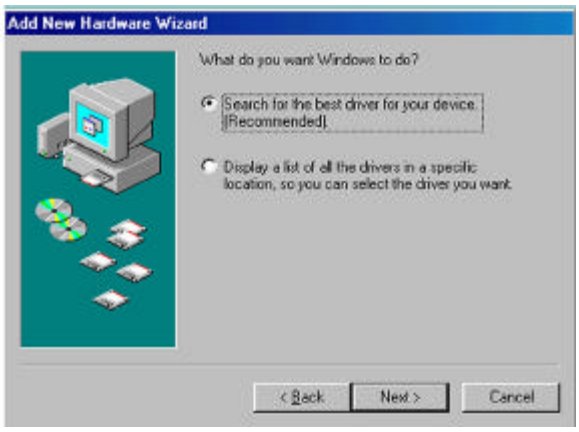
1. Turn off your computer and disconnect the power cable.

2. Remove the computer cover.

3. Install the PCI Adapter card into one of the empty PCI slots.
4. Replace the computer cover.
5. Turn on your computer.
   The Windows 98 Add New Hardware Wizard automatically detects the PCI-Adapter card and attempts to locate the driver media provided by the manufacturer. Insert the AirStation installation CD. You will see a dialog box like the one below.


Add New Hardware Wizard
This wizard searches for new drivers for:
Ricoh RL5C475 CardBus Controller
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

6. Click the **Next** Button.


Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

7. Select **Search For the Best Driver For Your Device (Recommended)** and click **Next.**

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
E:\PCIOP\WIN98
Browse...
< Back
Next >
Cancel

8. Clear all the check boxes and check only the **Specify a Location** check box. Type or click the **Browse** button and point to the driver path: **E:\PCIOP\WIN98**. (E: represents your CD-ROM drive). Click the **Next** button.

Add New Hardware Wizard
Windows driver file search for the device:
MELCO WLI-PCI Bridge
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
E:\PCIOP\WIN98\WLIPCI.INF
< Back
Next >
Cancel

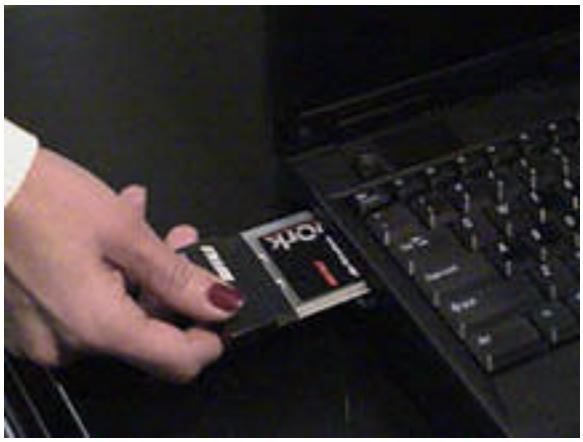
9. Windows 98 will begin installing the drivers. A dialog screen will come up with the message **Win 98 could not find the WLIpci.vxd.** In the specified location box, use the drop down arrow and select the same specified location you selected before (**E:\PCIOP\WIN98**) and then Click **OK.**

10. If you are prompted to insert your Windows 98 disk, type or click the **Browse** button and point to the driver path**: E:\WIN98**. (E: represents your CD-ROM drive) then Click **OK**.

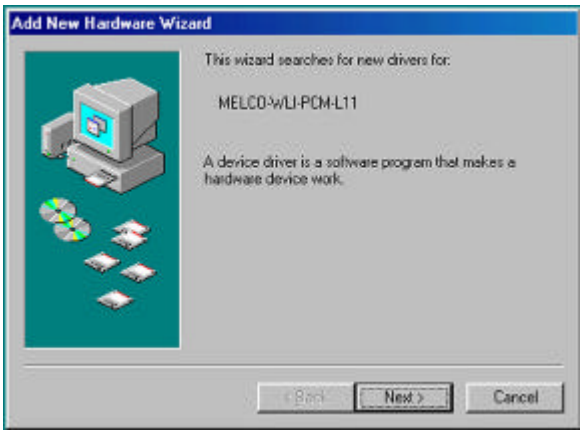
    You will then see a dialog box like the one below.

11. Click the **Finish** Button when the installation is complete.
12. Restart your computer for the changes to take effect.

1.2 Installation Instruction for the PCMCIA Wireless Card



1. Insert the PCMCIA card into the PCI adapter slot. The Windows 98 Add New Hardware Wizard automatically detects the PCMCIA card and attempts to locate the driver for it. Insert the Air Station installation CD. You will then see a dialog box like the one below.


Add New Hardware Wizard
This wizard searches for new drivers for:
MELCO-WLI-PCM-L11
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

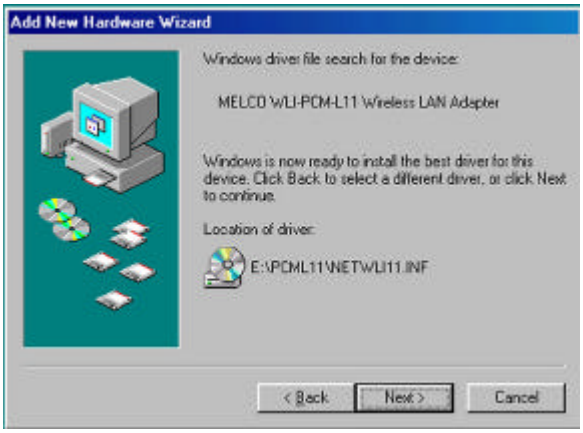
2. Click the **Next** button.

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

3. Select **Search For the Best Driver For Your Device (Recommended)** and click **Next**

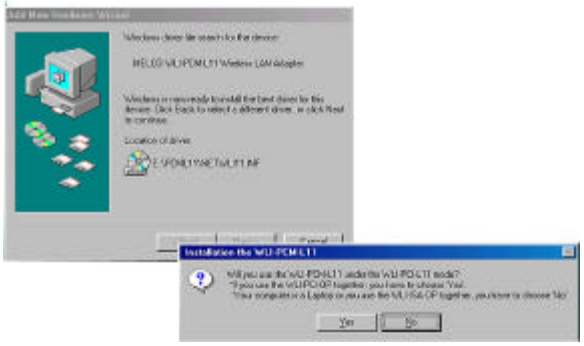
Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
E:\PCML11
Browse...
< Back
Next >
Cancel

4. Clear all the check boxes and check only the **Specify a Location** check box. Type or click the **Browse** button and point to the driver path: **E:\PCML11\WIN98**. (E: represents your CD-ROM drive) then click the **Next** button.

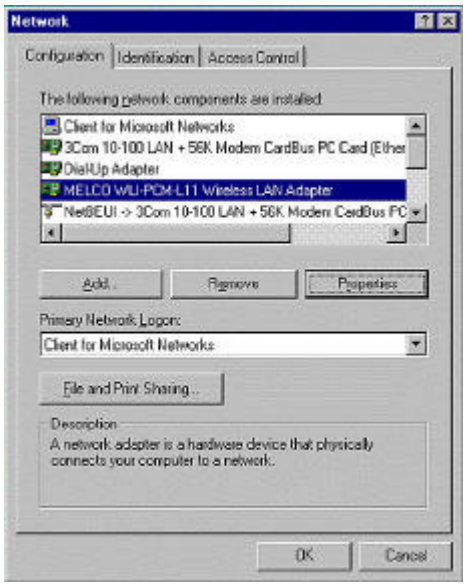

Add New Hardware Wizard
Windows driver file search for the device:
MELCO WLI-PCM-L11 Wireless LAN Adapter
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
E:\PCML11\NETWLI11.INF
< Back
Next >
Cancel

5. Click the **Next** button to install the Windows 98 drivers.
6. Windows 98 will begin installing the drivers. A dialog screen will come up with the message **Win 98 could not find the WLI11ins.dll.** In the specified location box, use the drop down arrow and select the same specified location you selected before **(E:\PCML11\WIN98)** then click **OK.**

You will then see a dialog box like the one below.



7. If you are using the WLI-PCI-OP together (desktop), click **Yes**. If your system is a laptop or you use the WLI-ISA-OP together, click **No**.
8. Windows 98 will complete installing the Drivers.
9. If you are prompted to insert your Windows 98 disk, type or click the **Browse** button and point to the driver path: **E:\WIN98**. (E: represents your CD-ROM drive) then click **OK**.
10. Click the **Finish** button when the installation is complete.
11. Restart your computer for the changes to take effect.
12. Click **Start** on the taskbar, and select **Settings** from the Start menu
13. Select **Control panel**, and the Control Panel group will appear
14. Double-click the **Network** Icon.

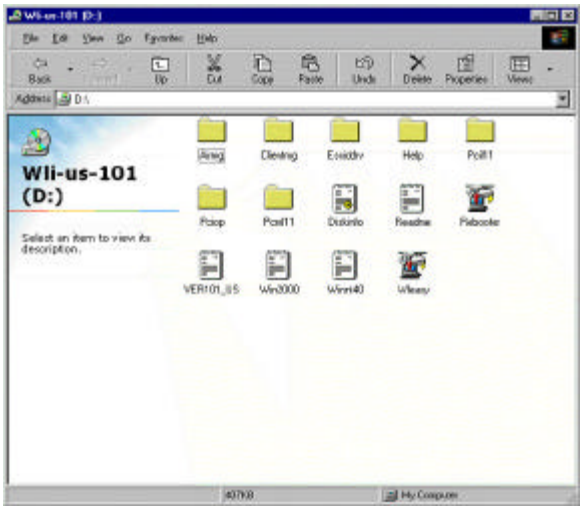


15. Select **MELCO WLI-PCM-L11 Wireless LAN Adapter** and Click the **Properties** button

16. Click the **Basic Setting** tab.
17. In the ESS ID Textbox, type the word "*ANY*" or if you have more than one Airstation Accesspoint, input the last six characters of the *MAC address* and the word "GROUP", with no space between them. The Media Access Control (MAC) address can be found on the back of the Airstation Accesspoint. For example, if the Mac Address is 004026 8A9090, then the last six characters of this number (8A9090) will be the MAC address. Please note that it is case sensitive, i.e. it must have capital letters where there are capital letters, and lower case letters where there are lower case letters.
18. If you have a laptop, verify that the WLI-PCI-L11 mode checkbox is unchecked otherwise if you have a desktop computer, check the WLI-PCI-L11 mode checkbox
19. Click **OK**
20. Restart your computer for the changes to take effect.
21. Install Client Manager.

1.3 INSTALLING CLIENT MANAGER

1. Insert your Air Station Driver CD in your CD-ROM drive.
2. Double-click the **my computer** icon on your desktop.
3. Double-click on your **CD-ROM** drive.

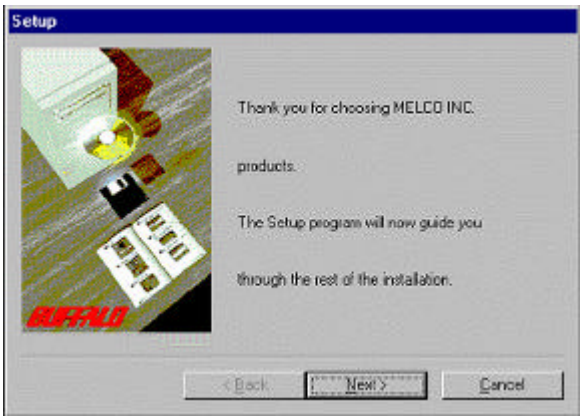


4. Double-click the **wleasy.exe** file in the current folder on your CD-ROM drive.

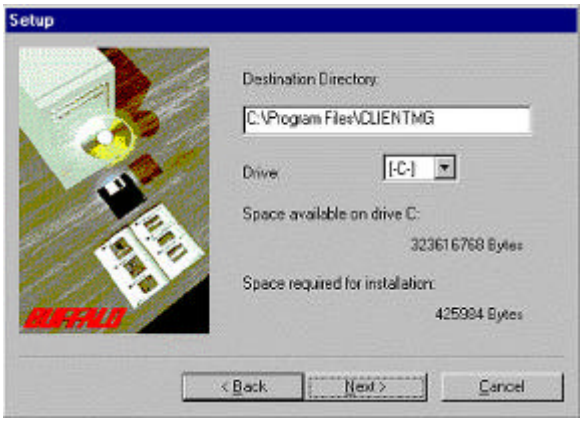
5. Select **Install the Client Manager.[C]** and click the **Next** button.

Exit Other Applications
It is recommended that you exit any applications currently running before installing this software.
Use the ALT+TAB keys to access applications and exit them before continuing installation.
OK

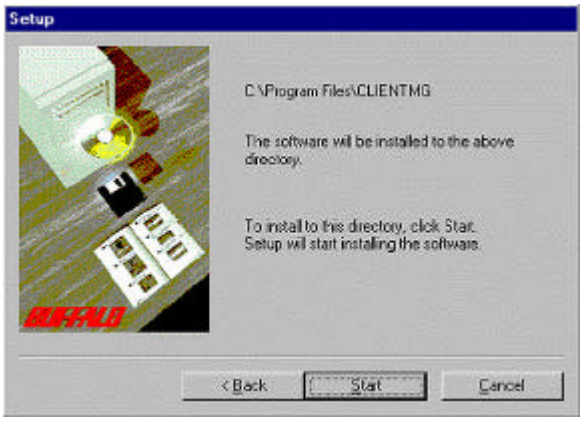
6. Exit any Applications currently running and Click OK
   The Client Manager Installer will begin.



7. Click the **Next** Button.

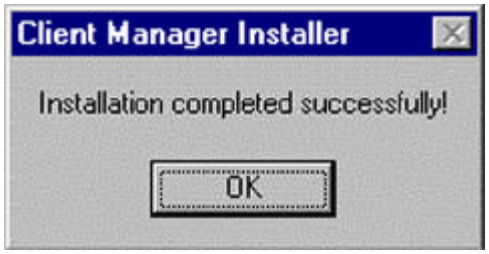


8. Click the **Next** Button.

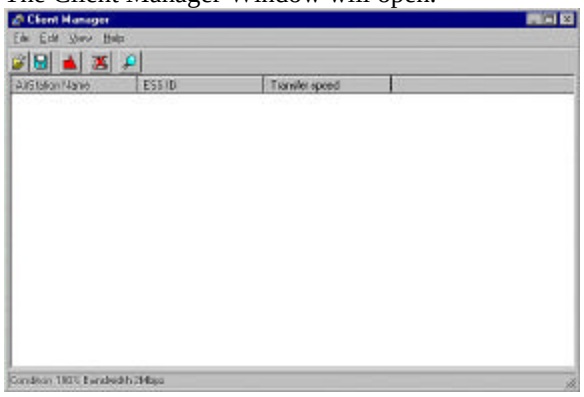


9. Click the **Start** Button.

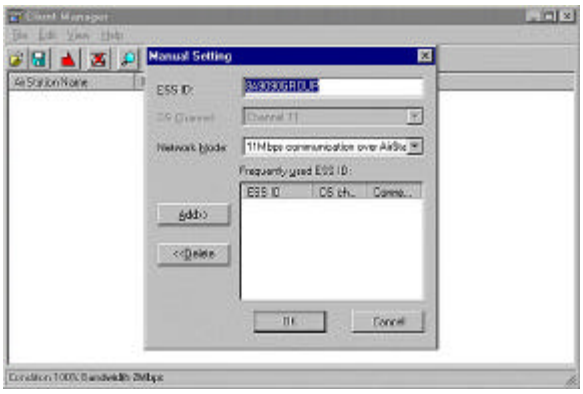
10. The Client Manager Files will be installed on Your System. We recommend you click **No** when prompted to add Client Manager to your Startup Menu.



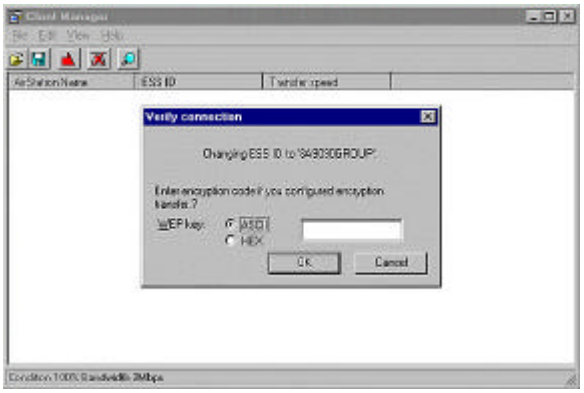
11. Click **OK** to complete the installation.
12. Restart your system when the installation is complete for the new settings to take effect.
13. Click **Start** on the taskbar. Select **Programs** from the Start menu. Select **Melco Wireless LAN** and then select **Client Manager.**
    The Client Manager Window will open.



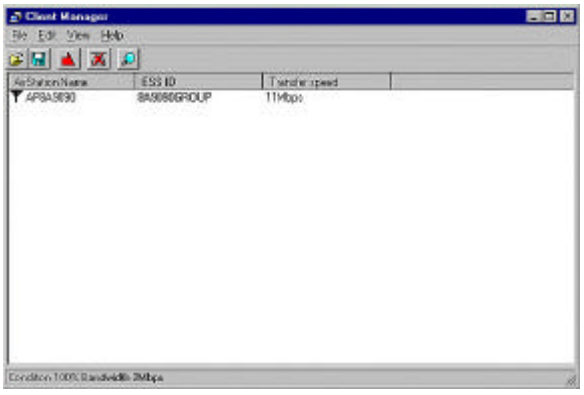
14. Click the **file Menu** and Select **Manual**



15. Type the word *"ANY"* or if you have more than one Airstation Accesspoint on your network, input the last six characters of the *MAC address* of the specific Airstation Accesspoint you want to connect to . The Media Access Control (MAC) address can be found on the back of the Airstation Accesspoint. For example, if the Mac Address is 004026 8A9090, then the last six characters of this number (8A9090) will be the MAC address. Please note that it is case sensitive, i.e. it must have capital letters where there are capital letters, and lower case letters where there are lower case letters. Click **OK**



16. Click **OK**



17. The Client Manager will search for the Airstation Accesspoint on the Network. Your Airstation Accesspoint will show up in the Window. When connected to the Airstation Accesspoint , the Airstation Accesspoint Name will be black and an antenna mark will also be displayed.
18. Refer to section on **Configuring your Airstation Accesspoint** .

2. WINDOWS 2000 INSTALLATION

Before you start, we recommend you install the latest service pack.

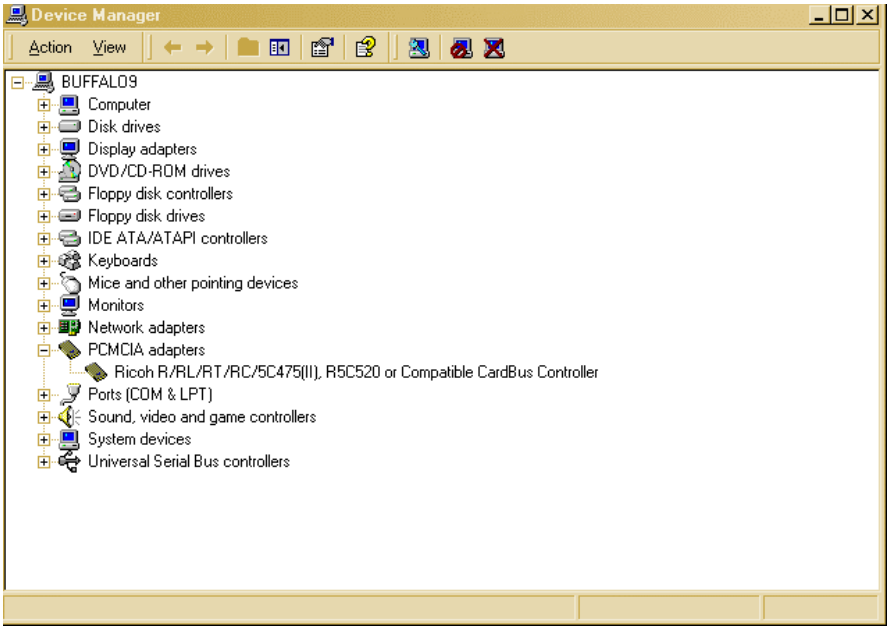
1. Turn off your computer and disconnect the power cable.

2. Remove the computer cover.

3. Install the PCI Adapter card into one of the empty PCI slots.
4. Replace the computer cover.
5. Reconnect the power cable.
6. Turn on your computer
7. Log on as the Administrator

2.1 UPDATING PCI-ADAPTER CARD DRIVER

1. Click **Start** on the taskbar, and select **Settings** from the Start menu
2. Select **Control panel**, and the Control Panel group will appear
3. Double-click the **System** icon and click the **Hardware** tab
4. Click the **Device Manager** button.

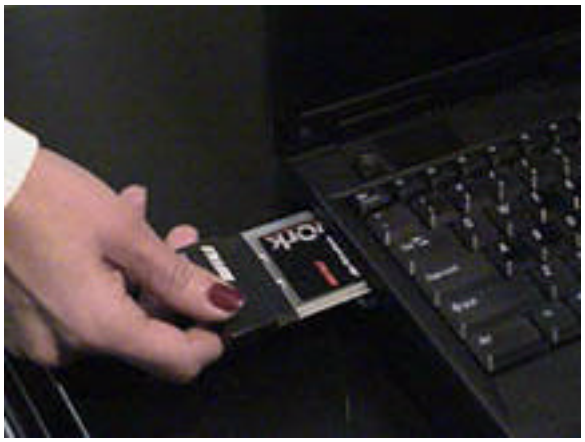


5. Make sure the following device name is listed in the *PCMCIA Adaptors*.
   WLI-PCI-OP:
   Ricoh R/RL/RT/RC/5C475(II),R5C520 or Compatible CardBus Controller.
   If the PCMCIA ADAPTER listed is **"buffalo WLI-PCI-OP Bridge"** then you have the latest driver installed. **Skip this section**.
6. Double-click the *device name.* (**Ricoh R/RL/RT/RC/5C475(II),R5C520 or Compatible CardBus Controller**)
7. Select the **Driver** tab and click the **Update Driver** button.
8. Click **Next.**

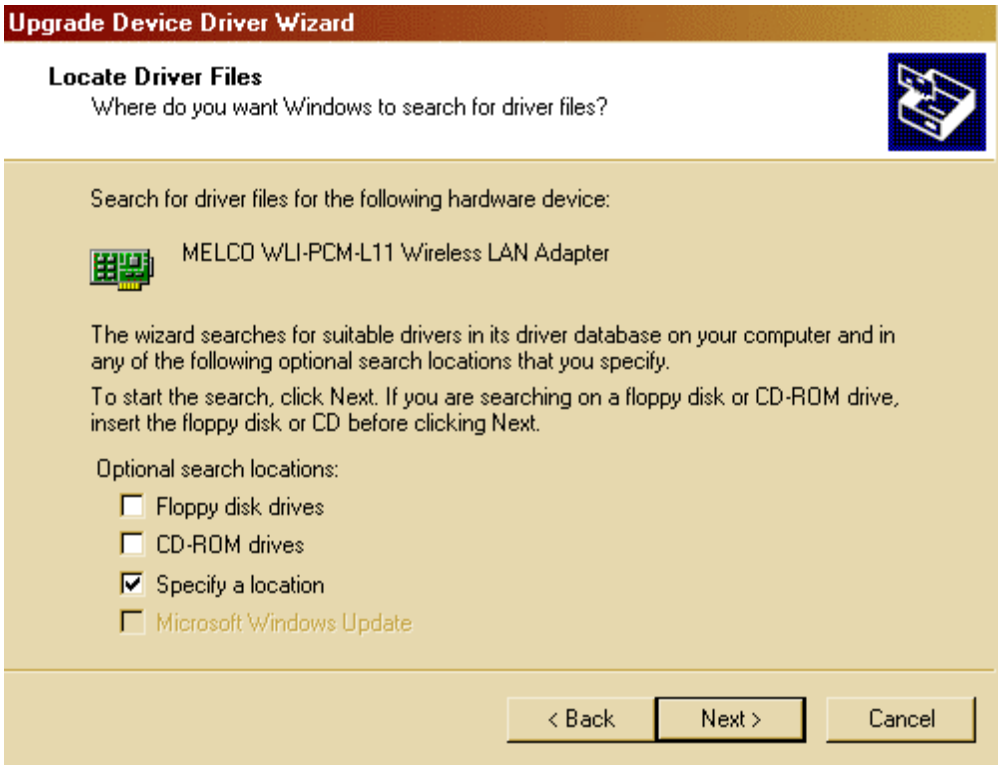
Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

9. Select **Search for The Best Driver For Your Device (Recommended)** option and click **Next**.
10. Type or click the **Browse** button and point to the driver path: **E:\PCIOP\WIN2000**. (E: represents your CD-ROM drive) and then click **Next**.
11. Select **Install one of the other drivers** and then click **Next**.
12. Select **BUFFALO WLI-PCI-OP Bridge**.
13. Click the **Next** button to install the driver.
14. Click the **Finish** button when the installation is complete.
15. Click the **Close** button.
16. Restart your computer for the new settings to take effect.

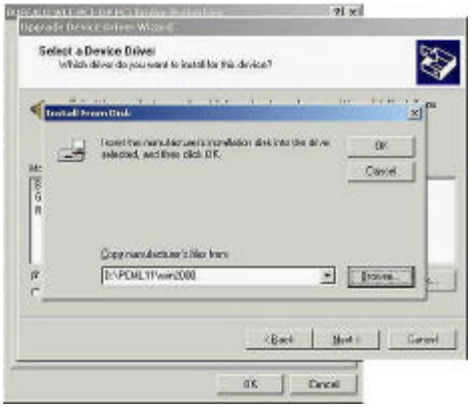
2.2 INSTALLATION INSTRUCTIONS FOR PCMCIA CARD



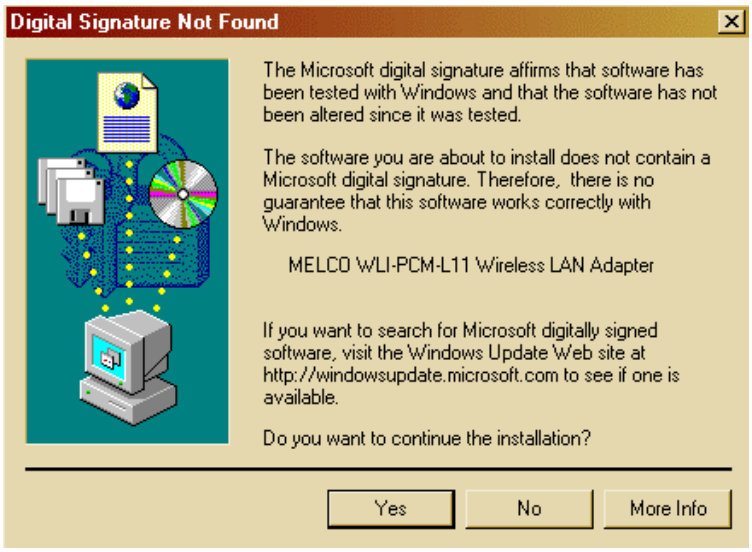
1. Insert the PCMCIA card into the Adapter card you just installed. If this is a laptop computer, insert the PMCIA card into an available slot.
2. Log on as the Administrator.
3. The Windows 2000 Add New Hardware Wizard automatically detects the Adapter card and attempts to locate the driver media provided by the manufacturer. Insert the installation disk and click **Next**.
4. Select **Search for The Best Driver For Your Device (Recommended)** option and click **Next**.


Upgrade Device Driver Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
MELCO WLI-PCM-L11 Wireless LAN Adapter
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

5. Clear all check boxes and check only the **Specify a Location** check box. Click **Next**.



6. Click the **Browse** button and point to the driver path **E:\PCML11\Win2000**. (E: represents your CD-ROM drive) then click **OK.**
7. Click **Next** to install the Windows 2000 drivers.

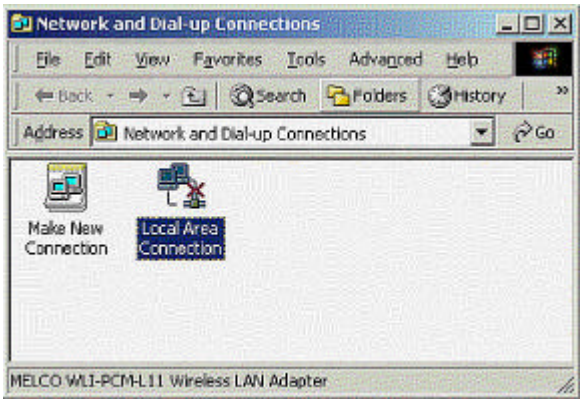

Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
MELCO WLI-PCM-L11 Wireless LAN Adapter
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

8. This dialogue box will appear. Answer the question **Do you want to continue the installation**? by clicking **Yes.**
9. Click the **Finish** button when the installation is complete.

2.3 CONFIGURING YOUR NEW LAN CARD

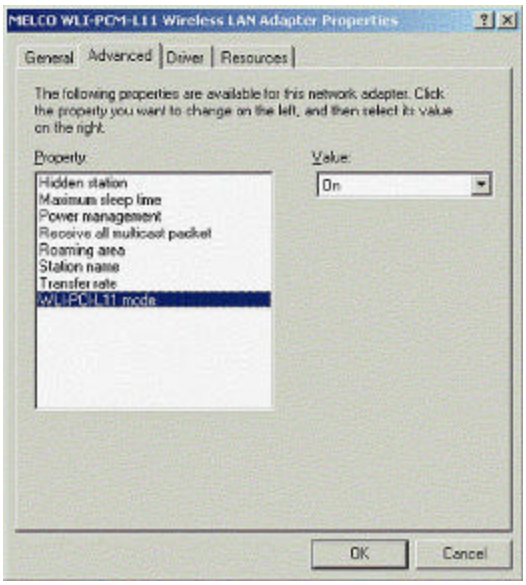
You will now see an Icon in your systray at the bottom of your taskbar that looks like two computers with a red X through them.

1. Right-click the icon and select **Network and Dial Up Connections**.

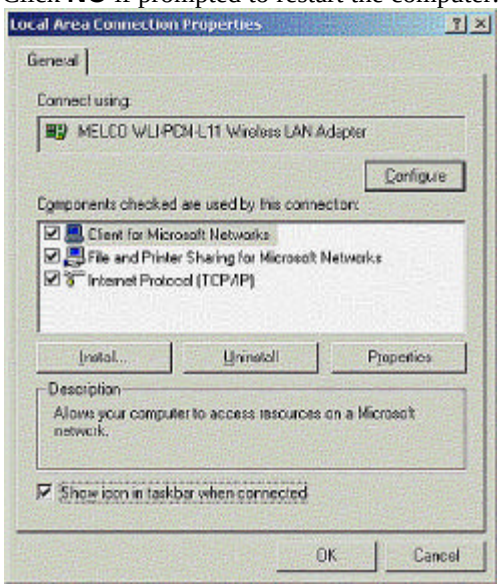

Network and Dial-up Connections
File Edit View Favorites Tools Advanced Help
Back Search Folders History
Address Network and Dial-up Connections
Go
Make New Connection
Local Area Connection
MELCO WLI-PCM-L11 Wireless LAN Adapter

2. Double-click the **Local Area Connection** for the Melco Wireless LAN.

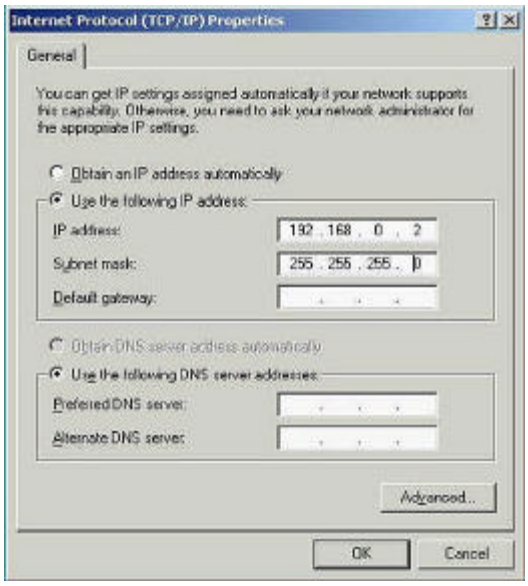
3. In the **Local Area Connection** properties dialog box, click the **Configure** button for the Melco Wireless Adapter.
4. Click the **Advanced** tab.



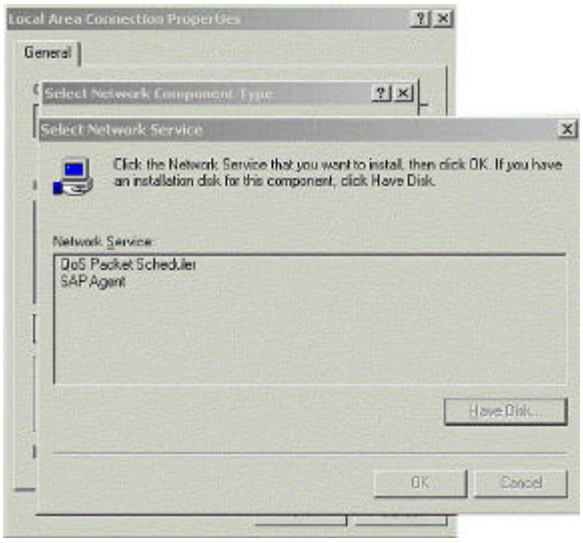
5. If you are using a PCI-adapter (i.e. Desktop), select the **WLI-PCI mode** and make sure it is set to **ON** otherwise if you are using a laptop, set it to **OFF**.
6. Select the **Station name** property and type the word "*ANY*" or if you have more than one Airstation Accesspoint , type the last six characters of the *Airstation Accesspoint MAC address* following by the word *"GROUP"*, with no space between them in the value textbox. All alphabetical characters need to be capitalized. You can find the last six characters of the *MAC address* by looking at the back of the AirStation Accesspoint. There will be two stickers, one of which will start with 00. For example, if the Mac Address is 004026 8A9090, then the last six characters of this number (8A9090) will be the MAC address.
7. Click **OK**.
8. Click **NO** if prompted to restart the computer.



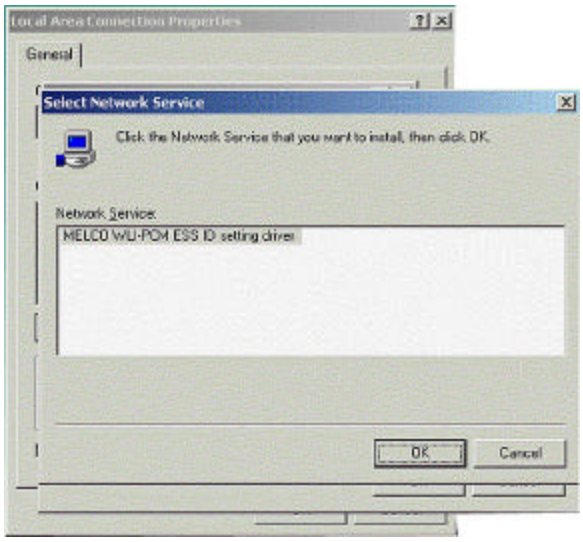
9. Select the **TCP/IP protocol** in the Network properties dialog box and click the **Properties** button.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 2
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

10. Configure your TCP/IP protocol for your LAN setup. If you do not know your LAN setup, consult your users manual or system administrator.
11. Click **OK.**
12. Click the **install** button.
13. Select **Service** and click the **Add** button.


Local Area Connection Properties
General
Select Network Component Type
Select Network Service
Click the Network Service that you want to install, then click OK. If you have an installation disk for this component, click Have Disk.
Network Service:
QoS Packet Scheduler
SAP Agent
Have Disk...
OK
Cancel

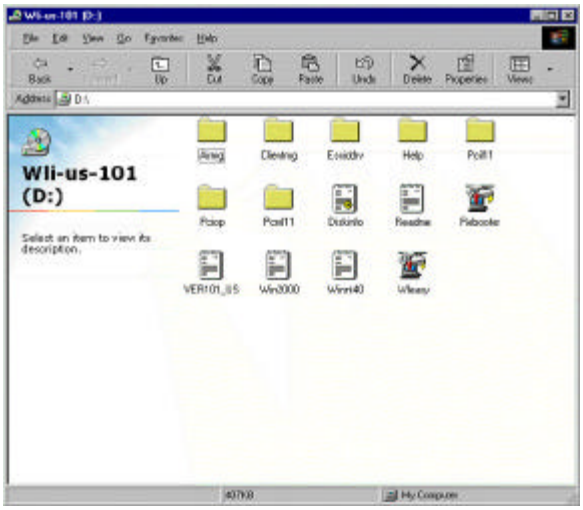
14. Click **Have disk**. Type or click the Browse button and point to the driver path: **E:\ESSIDDRV\WIN2000.** (E: represents your CD-ROM drive)
15. Click **OK**.
16. If you are prompted to **Click the Network Service that you want to install**.



17. Click on the **Melco Essid** service and then click **OK**.
18. Restart your computer for the new settings to take effect.
19. Install the Client Manager.

2.4 INSTALLING CLIENT MANAGER

1. Insert your Air Station Driver CD in your CD-ROM drive.
2. Double-click the **my computer** icon on your desktop.
3. Double-click on your **CD-ROM** drive.

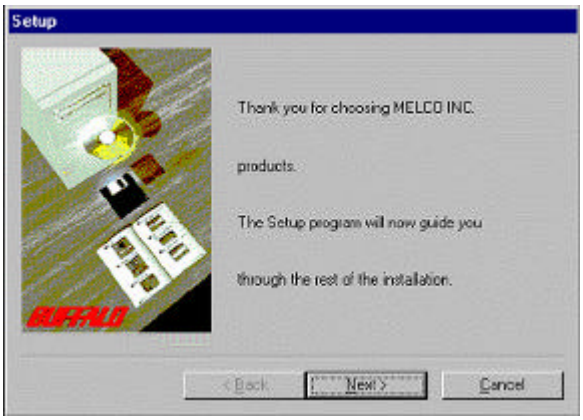


4. Double-click the **wleasy.exe** file in the current folder on your CD-ROM drive.

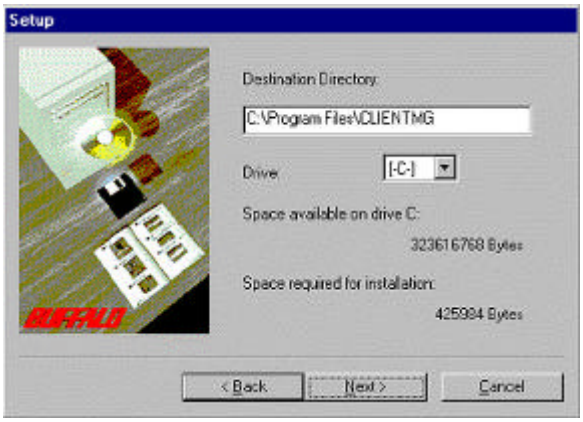
5. Select **Install the Client Manager.[C]** and click the **Next** button.

Exit Other Applications
It is recommended that you exit any applications currently running before installing this software.
Use the ALT+TAB keys to access applications and exit them before continuing installation.
OK

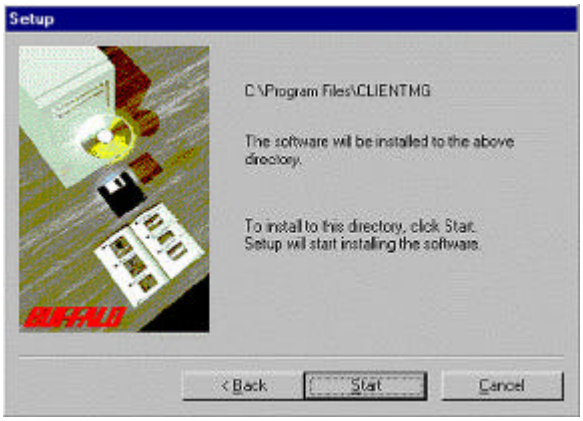
6. Exit any Applications currently running and Click **OK.**
   The Client Manager Installer will begin.



7. Click the **Next** Button.

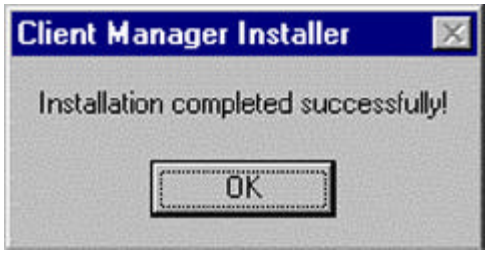


8. Click the **Next** Button.

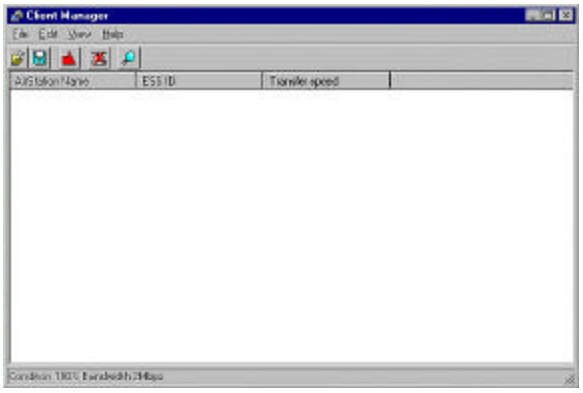


9. Click the **Start** Button.

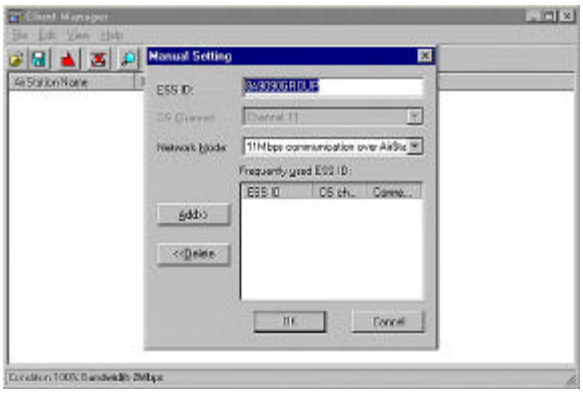
10. The Client Manager Files will be installed on Your System. We recommend you click **No** when prompted to add Client Manager to your Startup Menu.



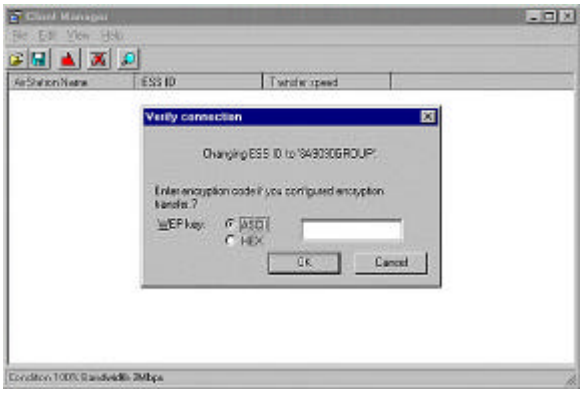
11. Click **OK** to complete the installation.
12. Restart your system when the installation is complete for the new settings to take effect.
13. Click **Start** on the taskbar. Select **Programs** from the Start menu. Select **Melco Wireless LAN** and then select **Client Manager.**
    The Client Manager Window will open.



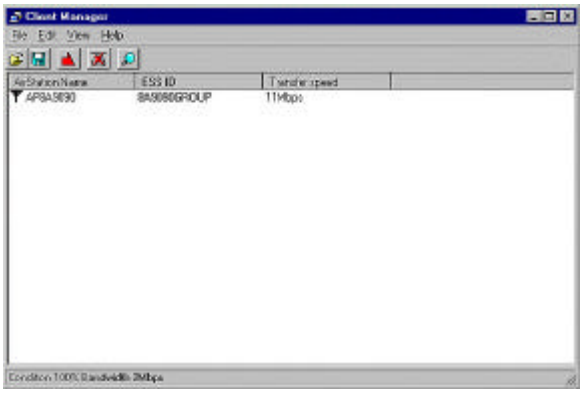
14. Click the **file Menu** and Select **Manual**



15. Type the word *"ANY"* or if you have more than one Airstation Accesspoint on your network, input the last six characters of the *MAC address* of the specific Airstation Accesspoint you want to connect to. The Media Access Control (MAC) address can be found on the back of the Airstation Accesspoint. For example, if the Mac Address is 004026 8A9090, then the last six characters of this number (8A9090) will be the MAC address. Please note that it is case sensitive, i.e. it must have capital letters where there are capital letters, and lower case letters where there are lower case letters. Click **OK**



16. Click **OK**



17. The Client Manager will search for the Airstation Accesspoint on the Network. Your Airstation Accesspoint will show up in the Window. When connected to the Airstation Accesspoint , the Airstation Accesspoint Name will be black and an antenna mark will also be displayed.
18. Refer to section on **Configuring your Airstation**.

3. WINDOWS NT 4.0 INSTALLATION

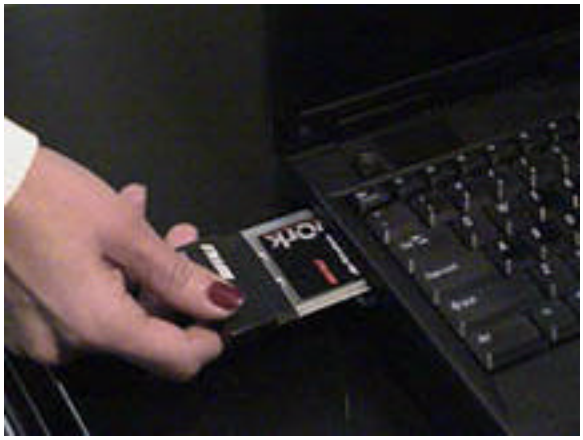
Before you start, you must make sure you have Windows NT 4.0 with the latest service pack.

If you are using a Laptop, please refer to "Installation instructions for PCMCIA wireless card" section, page 19.

1. Turn off your computer, and disconnect the power cable.

2. Remove the computer cover.

3. Install the PCI Adapter card into one of the empty PCI slots.
4. Replace the computer cover.
5. Reconnect the power cable.



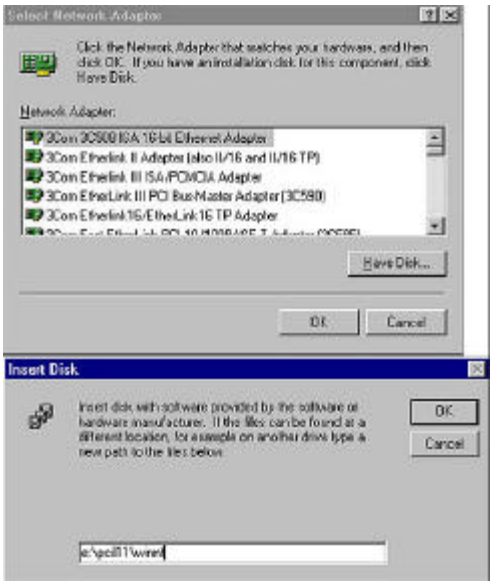
6. Insert the PCMCIA card in the PCI Adapter card you just installed.
7. Turn on your computer.
8. Log on as the Administrator.

3.1 Installation for PCI Adapter Cards

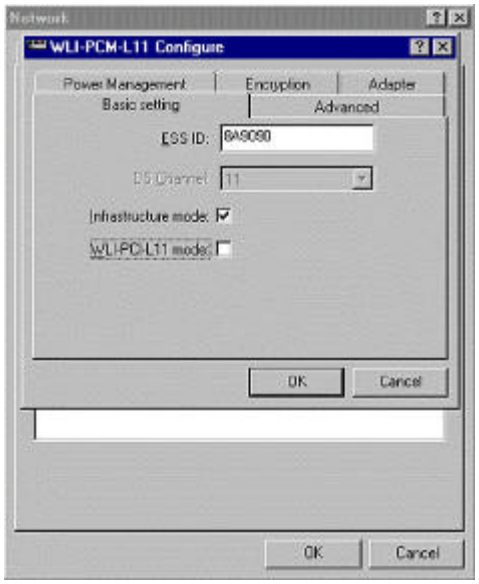
1. Put the Air Station CD in the CD-ROM drive.
2. Double-click **My Computer**.
3. Double-click the **CD-ROM drive**.
4. Double-click the **PCI-OP** folder.
5. Double-click the **Setup.exe icon**. Follow the setup using the designated information.
6. Restart your computer when prompted to do so.

3.2 Installation for PCMCIA Wireless Card

1. Log in as the Administrator.
2. Click **Start** on the taskbar, and select **Settings** from the Start menu.
3. Select **Control Panel**. The Control Panel Group appears.
4. Double-click the **Network** icon.
5. Click the **Adapter** tab and then click the **Add** button.
6. Click the **Have Disk** button.


Select Network Adapter
Click the Network Adapter that matches your hardware, and then click OK. If you have an installation disk for this component, click Have Disk.
Network Adapter:
3Com EtherLink III PCI Bus-Master Adapter (3C590)
3Com EtherLink 16/EtherLink 16 TP Adapter
Have Disk...
OK
Cancel
Insert Disk
OK
Cancel

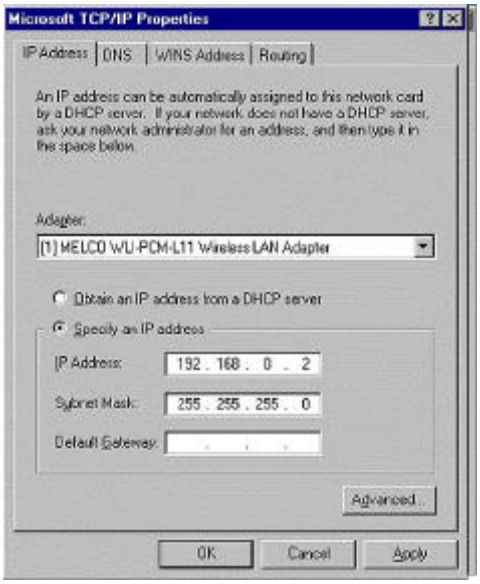
7. Type your *CD-ROM drive letter* and then PCML11\Winnt. It should look something like this **(E:\PCIL11\Winnt).**
8. A dialog box will come up with **Melco WLI-PCM-L11 wireless LAN adapter** highlighted.
9. Click **OK**. You will then see a WLI-PCM-L11 configuration box.



10. Click the **Basic settings** tab.
11. Check the **infrastructure mode** checkbox.
12. Check the **WLI-PCI-L11 mode** checkbox if using a PCI-adapter card.
13. The **ESSID** textbox will then ungray. Type the word *"ANY"* or if you have more than one Airstation Accesspoint on your network, input the last six characters of the *MAC address* and the word "GROUP", with no space between them of the specific Airstation Accesspoint you want to connect to. All alphabetical characters need to be capitalized. You can find the last six characters of the *MAC* address by looking on the back of the Airstation Accesspoint. There will be two stickers, one of which will start with 00. For example, if the Mac Address is 004026 8A9090, then the last six characters of this number (8A9090) will be the MAC address.

14. Click **OK**.

15. Click **close** when you see **Melco WLI-PCM-L11 wireless LAN adapter** in the configuration box.
16. A **TCP/IP** configuration box will appear.
17. Verify that the **MELCO WLI-PCM-L11 Wireless LAN Adapter** is selected in the adapter text box.


Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
[1] MELCO WLI-PCM-L11 Wireless LAN Adapter
Obtain an IP address from a DHCP server
Specify an IP address
IP Address:
192 . 168 . 0 . 2
Subnet Mask:
255 . 255 . 255 . 0
Default Gateway:
Advanced...
OK
Cancel
Apply

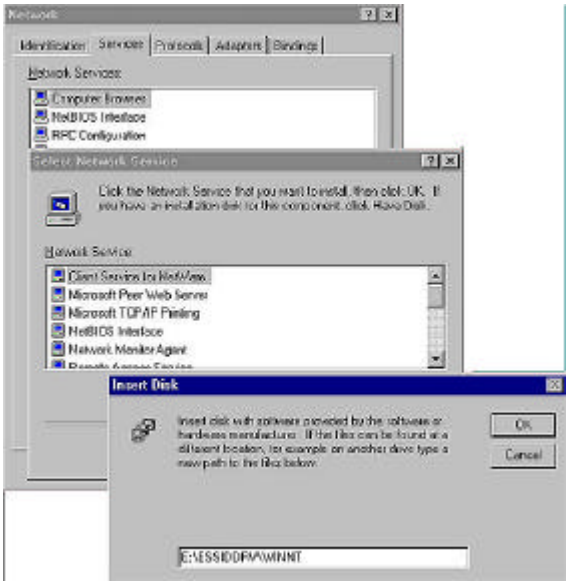
18. Select **Specify an IP address** and input the IP address and subnet mask below.

IP address: 192.168.0.2
Subnet Mask: 255. 255. 255. 0

19. Click **OK**.
20. Restart your computer for the changes to take effect

3.3 Installing the ESS-ID Settings Driver

1. Click **Start** on the taskbar, and select settings from the Start menu.
2. Select **Control panel**, and the Control Panel group appears.
3. Double-click the **Network** icon.
4. In the Network dialog box, Select **Service** and click the **Add** button.
5. Click **Have Disk** and in the specified location area type in your CD-ROM drive letter followed by a colon and ESSIDDRV\WINNT. You should have **E:\ESSIDDRV\WINNT** where **E** represents your drive letter.
6. Click **OK.**

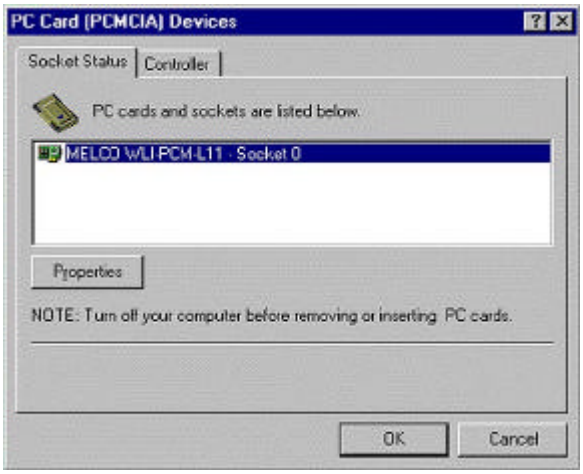

Network Services:
Computer Browser
NetBIOS Interface
RPC Configuration
Select Network Service
Click the Network Service that you want to install, then click OK. If you have an installation disk for this component, click Have Disk.
Network Service:
Client Service for NetWare
Microsoft Peer Web Server
Microsoft TCP/IP Printing
NetBIOS Interface
Network Monitor Agent
Insert Disk
Insert disk with software provided by the software or hardware manufacturer. If the files can be found at a different location, for example on another drive type a new path to the files below.
OK
Cancel
E:\ESSIDDRV\WINNT

7. When Windows NT has completed installing the ESSID driver, it will show in the network properties dialog box.
8. Click **OK** to complete installation.
9. Restart your computer for the new settings to take effect.

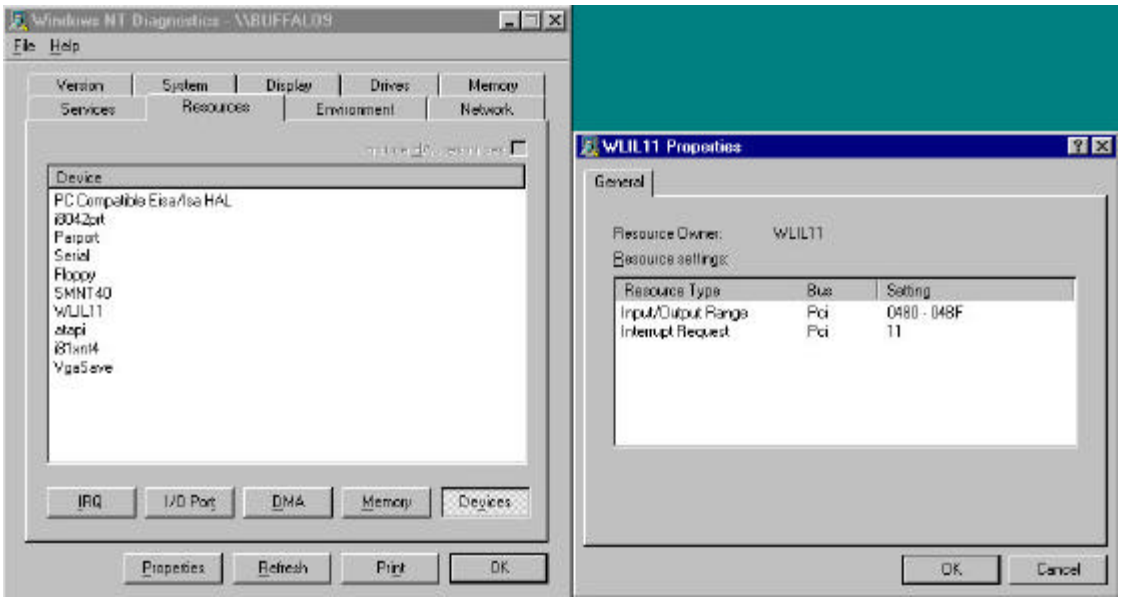
3.4 Troubleshooting

Windows NT4.0 has a standard diagnostics program that checks to verify if the WLI-PCM-L11 has been installed correctly. Follow the steps below to perform this check.

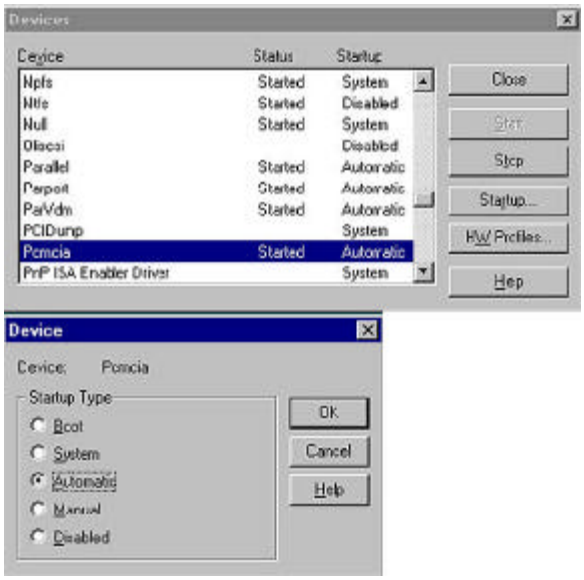
1. Click the **Start** on the taskbar, and select **Settings** from the Start menu.
2. Select **Control Panel**. The Control Panel group appears.
3. Double-click the **PC CARD [PCMCIA]** icon.



4. Verify that the **PCMCIA Card** is installed.
5. Close the **Control Panel**.
6. Click the **Start** button on the taskbar, select **Programs** from the start menu, select **Administrative Tools (Common)** from the programs menu and then select **Windows NT Diagnostics** from the Administrative Tools menu.
7. Click the **Resources** tab.
8. Click the **Devices** button at the bottom of the dialog box.
9. Select **Wlil11** .
   If **Wlil11** is not on the Device list, reinstall the PCI adapter card software.
10. Click the **Properties** button at the bottom of the dialog box.
11. Check that **Input/Output Range, Memory Range,** and **Interrupt Request** are displayed. If no settings are displayed or **Wlil11** is not listed in the Device list, try changing the resource settings (See Changing resource settings section). Also, check that the PCMCIA Card is insert correctly.



12. Click **OK** to close the WliL11 properties dialog box.
13. Click **OK** to close the Windows NT Diagnostics Dialog box.
14. Click the **Start** on the taskbar, and select **Settings** from the Start menu.
15. Select **Control Panel**. The Control Panel group appears.
16. Double-click the **Devices** icon.
17. Verify that the status for the **MELCO Wireless LAN Card** is started and that the Startup setting is **Automatic**.



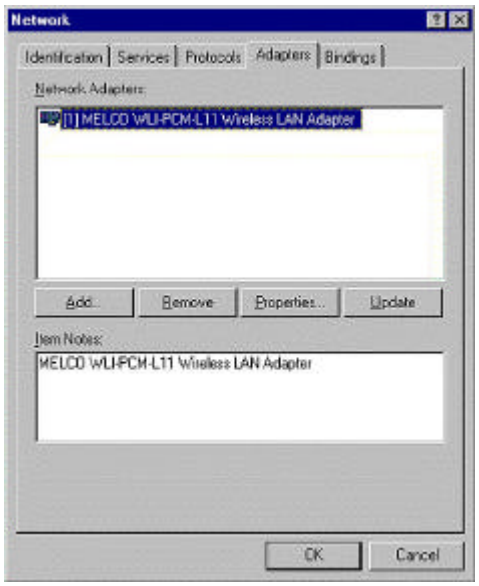
18. Verify that the status for **PCMCIA** under devices is started and that the startup setting is **Automatic**.
19. If the status is not started, (see above) select the **PCMCIA Device** and click the **Startup** Button.
20. Select **Automatic** and click **OK**.
21. Click the **Close** button.
22. Restart your computer for the changes to take effect.

23. Install the Client Manager.

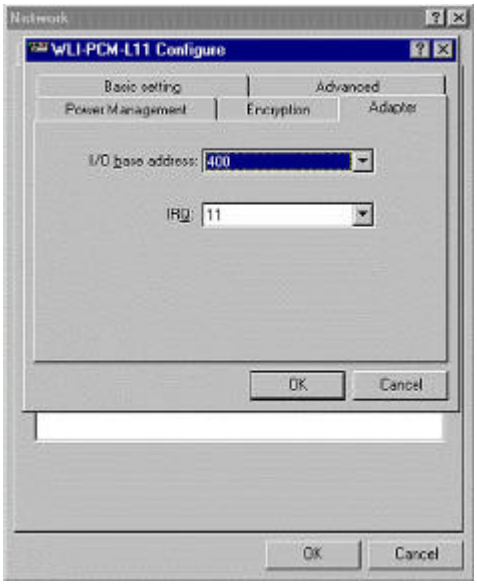
3.5 Changing Resource Settings

Follow the steps below if you need to change the settings for the WLI-PCM-L11 (IRQ level, I/O port address).

1. Click **Start** on the taskbar, and select **settings** from the Start menu.
2. Select **Control panel**, and the Control Panel group appears.
3. Double-click the **Network** icon.



4. Click the **Adapters** tab. Select **MELCO WLI-PCM-L11 Wireless LAN Adapter** and click the **Properties** button.

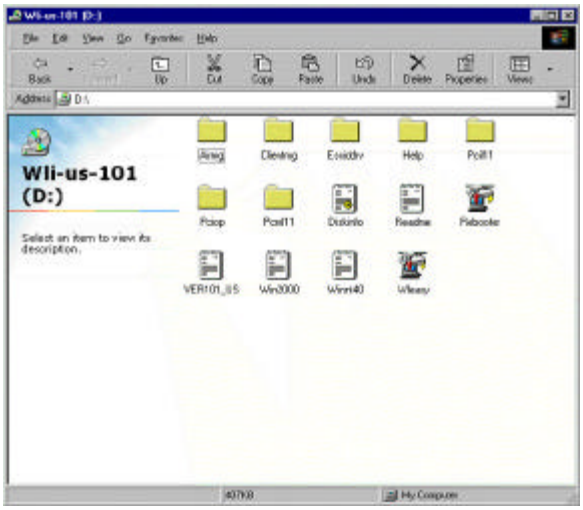


5. Click the **Adapters** tab.

6. The current settings for the WLI-PCM (IRQ level, I/O port address) are displayed. Change the settings as required and click the **OK** button. Refer to your users manual for which parameters to change.
7. Restart the computer so that the new settings will take effect.

3.6 INSTALLING CLIENT MANAGER

1. Insert your Air Station Driver CD in your CD-ROM drive.
2. Double-click the **my computer** icon on your desktop.
3. Double-click on your **CD-ROM** drive.

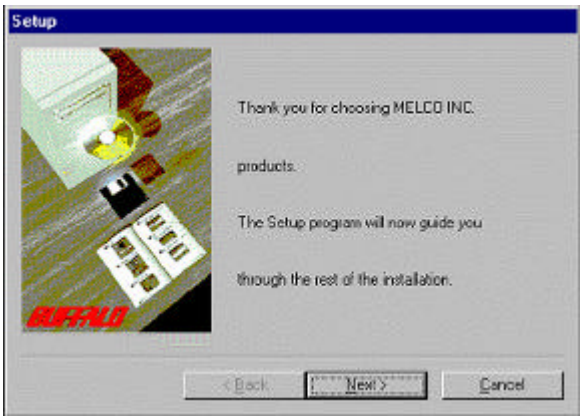


4. Double-click the **wleasy.exe** file in the current folder on your CD-ROM drive.

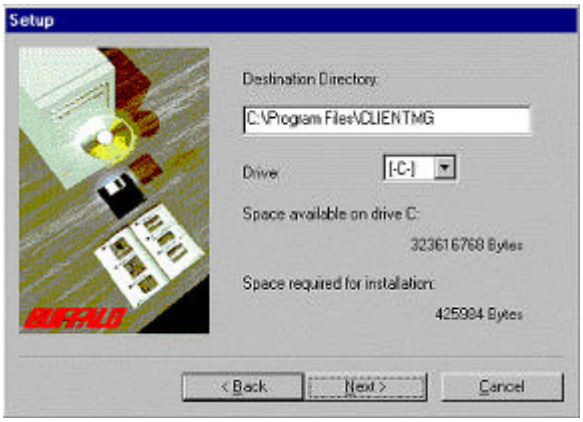
5. Select **Install the Client Manager.[C]** and click the **Next** button.

Exit Other Applications
It is recommended that you exit any applications currently running before installing this software.
Use the ALT+TAB keys to access applications and exit them before continuing installation.
OK

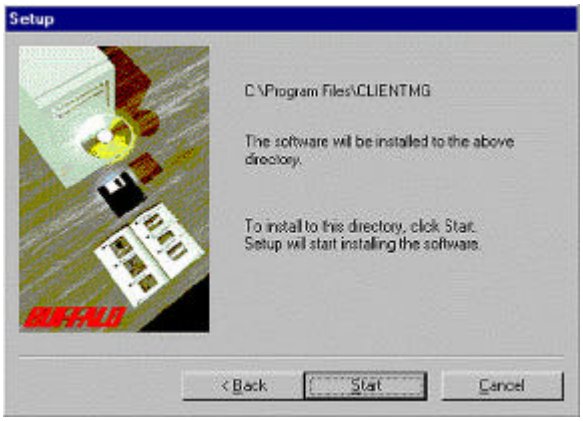
6. Exit any Applications currently running and Click **OK**
   The Client Manager Installer will begin.



7. Click the **Next** Button.

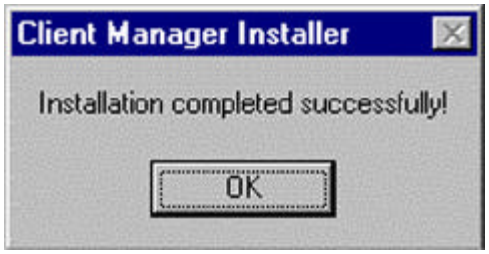


8. Click the **Next** Button.

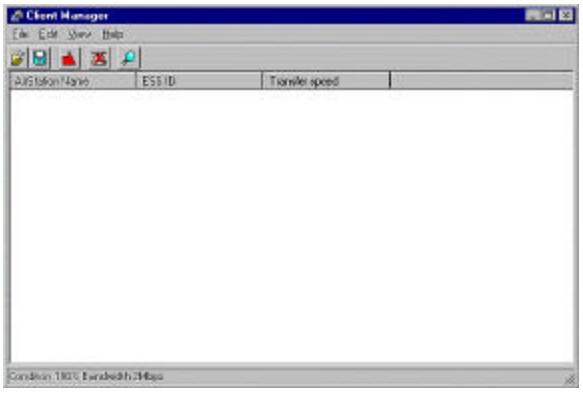


9. Click the **Start** Button.

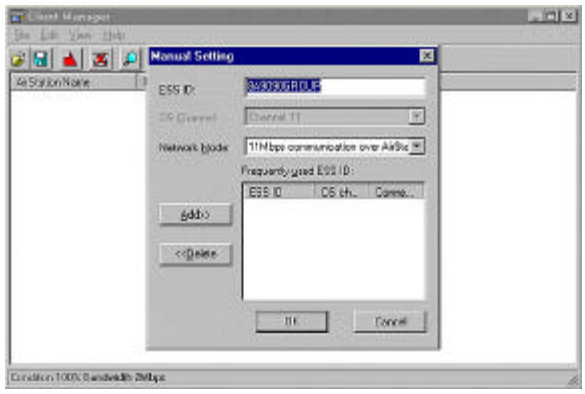
10. The Client Manager Files will be installed on Your System. We recommend you click **No** when prompted to add Client Manager to your Startup Menu.



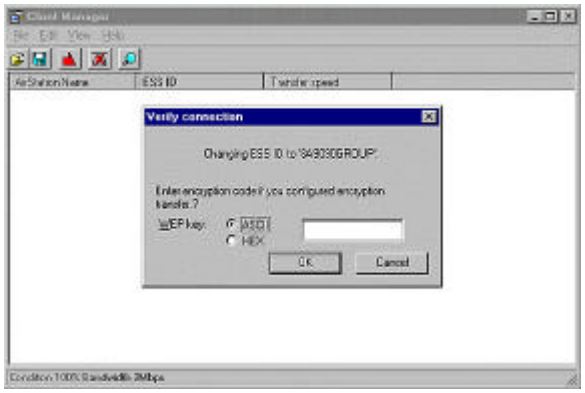
11. Click **OK** to complete the installation.
12. Restart your system when the installation is complete for the new settings to take effect.
13. Click **Start** on the taskbar. Select **Programs** from the Start menu. Select **Melco Wireless LAN** and then select **Client Manager.**
    The Client Manager Window will open.



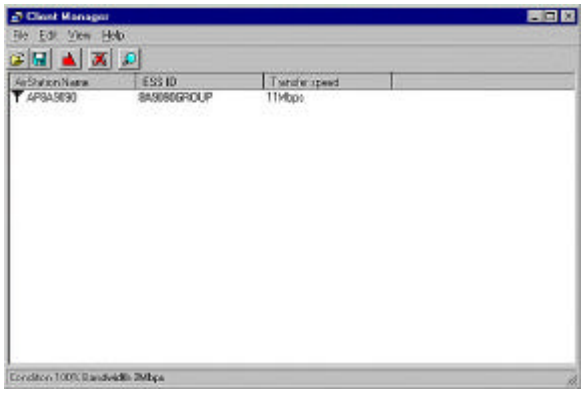
14. Click the **file Menu** and Select **Manual**



15. Type the word "*ANY*" or if you have more than one Airstation Accesspoint , input the last six characters of the *MAC address* and the word "GROUP", with no space between them. The Media Access Control (MAC) address can be found on the back of the Airstation Accesspoint. For example, if the Mac Address is 004026 8A9090, then the last six characters of this number (8A9090) will be the MAC address. Please note that it is case sensitive, i.e. it must have capital letters where there are capital letters, and lower case letters where there are lower case letters. Click **OK**



16. Click **OK**



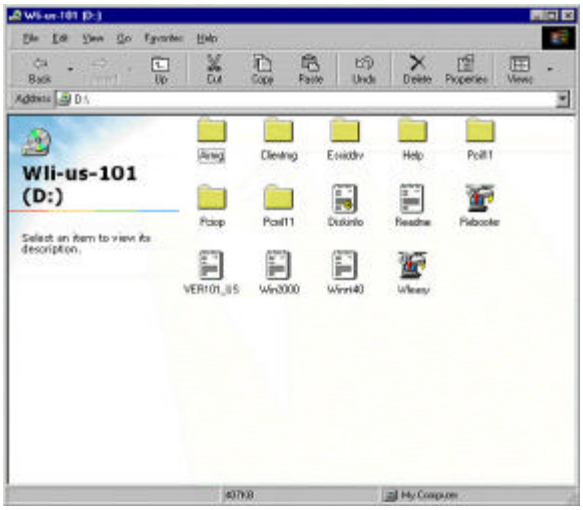
17. The Client Manager will search for the Airstation Accesspoint on the Network. Your Airstation Accesspoint will show up in the Window. When connected to the Airstation Accesspoint , the Airstation Accesspoint Name will be black and an antenna mark will also be displayed.
18. Refer to section on **Configuring your Airstation.**

4. CONFIGURING THE AIRSTATION STANDARD MODEL WLA-L11

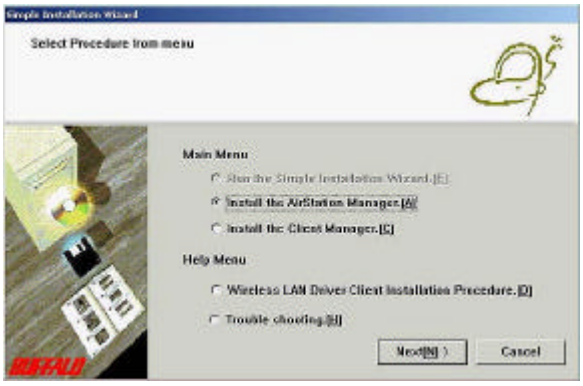
After installing the Client Manager, you should be connected to the Airstation Accesspoint and should be fully functional. You have a default IP address of 1.1.1.1. If you need to change the IP address, install the Airstation Manager.

INSTALLING AIRSTATION MANAGER

1. Insert your Air Station Driver CD in your CD-ROM drive.
2. Double-click the **my computer** icon on your desktop.
3. Double-click on your **CD-ROM** drive.



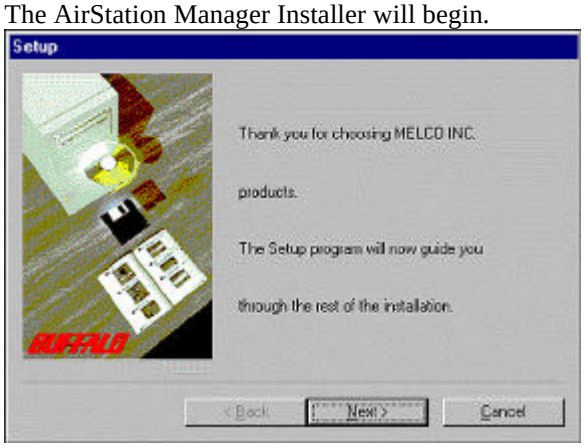
4. Double-click the **wleasy.exe** file in the current folder on your CD-ROM drive.



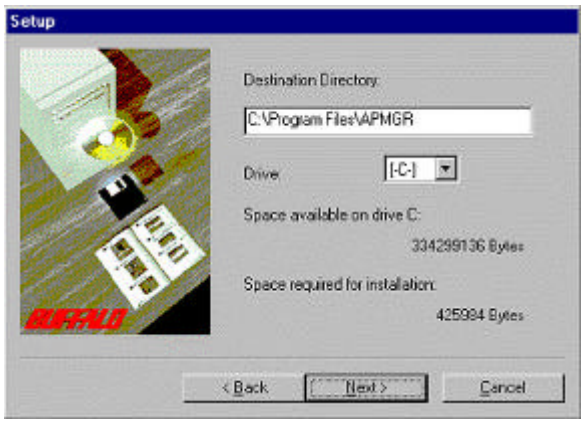
5. Select **Install the AirStation Manager.[A]** and click the **Next** button.

Exit Other Applications
It is recommended that you exit any applications currently running before installing this software. Use the ALT+TAB keys to access applications and exit them before continuing installation.
OK

6. Exit any applications you have running and then Click **OK**.
   The AirStation Manager Installer will begin.



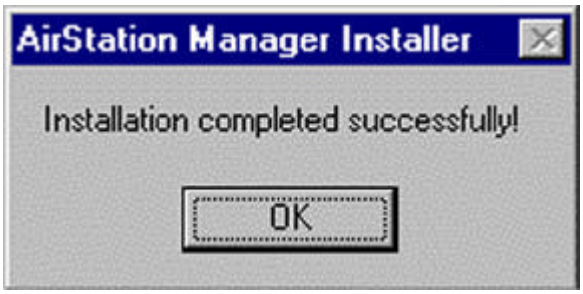
7. Click the **Next** Button.



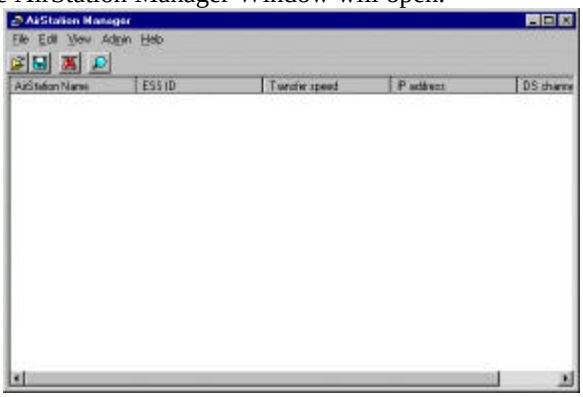
8. Click the **Next** Button

9. Click the **Start** button.

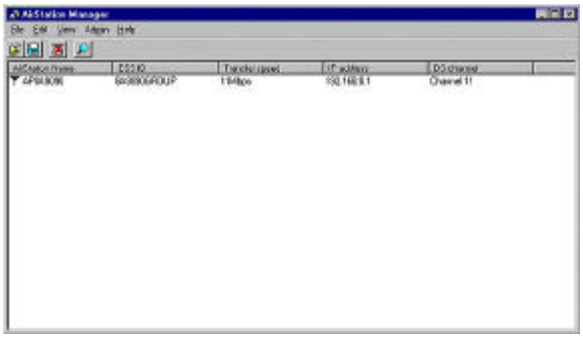
The AirStation Manager Files will be installed on your system.



10. Click **OK** to complete the installation.
11. Restart your system when the installation is complete for the new settings to take effect.
12. Click **Start** on the taskbar. Select **Programs** from the Start menu. Select **Melco Airstation** and
    then select **AirStation Manager.**
    The AirStation Manager Window will open.



13. Click the **search** icon on your toolbar**.**



14. The AirStation Manager will search for the Airstation Accesspoint on the Network. Your Airstation Accesspoint will show up in the Window. When connected to the Airstation Accesspoint, the Airstation Accesspoint Name will be black and an antenna mark will also be displayed.

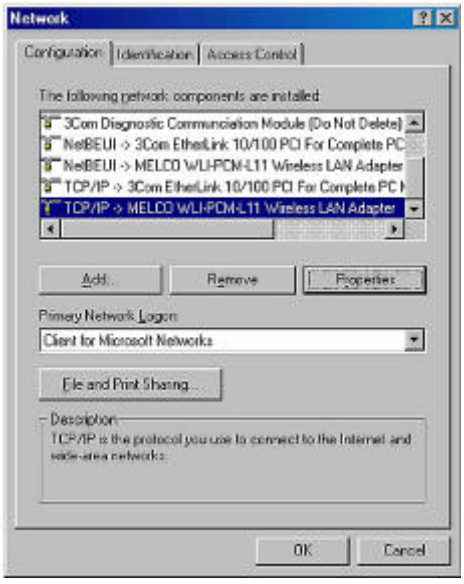
15. To change the IP Address settings for your Airstation Accesspoint, select the **AirStation**. In the **Admin Menu**, select **IP Address** and change it accordingly. Click **OK**.

5. CONFIGURING THE AIRSTATION ROUTER MODEL WLAR-L11

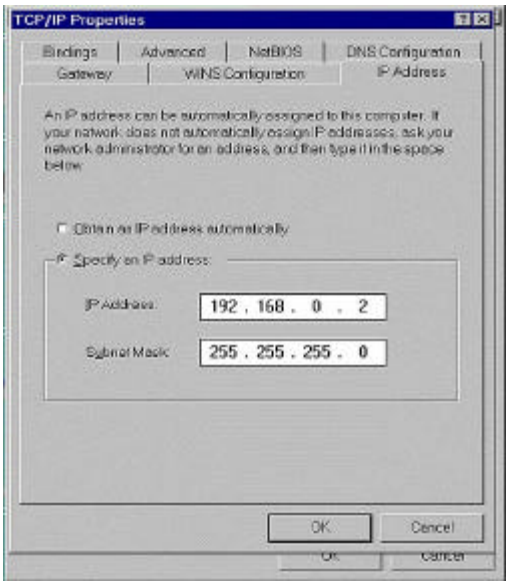
5.1 CHANGING TCI/IP SETTINGS IN WINDOWS 98 OR *ME*

Your Airstation Accesspoint is a Bridge with an IP Address of 1.1.1.1 by default. In order for you to connect to the Airstation Accesspoint and convert it to a Router, we recommend that you change your computer's TCP/IP settings to the static Address 192.168.0.2 and that you configure the Router's IP Address to 192.168.0.1.

1. Click **Start** on the taskbar, and select **Settings** from the Start menu.
2. Select **Control panel**, and the Control Panel group appears.
3. Double-click the **Network Icon.**
4. Select the **Configuration** tab.


Network
Configuration
Identification
Access Control
The following network components are installed:
3Com Diagnostic Communication Module (Do Not Delete)
NetBEUI -> 3Com EtherLink 10/100 PCI For Complete PC
NetBEUI -> MELCO WLI-PCM-L11 Wireless LAN Adapter
TCP/IP -> 3Com EtherLink 10/100 PCI For Complete PC
TCP/IP -> MELCO WLI-PCM-L11 Wireless LAN Adapter
Add...
Remove
Properties
Primary Network Logon:
Client for Microsoft Networks
File and Print Sharing...
Description
TCP/IP is the protocol you use to connect to the Internet and
OK
Cancel

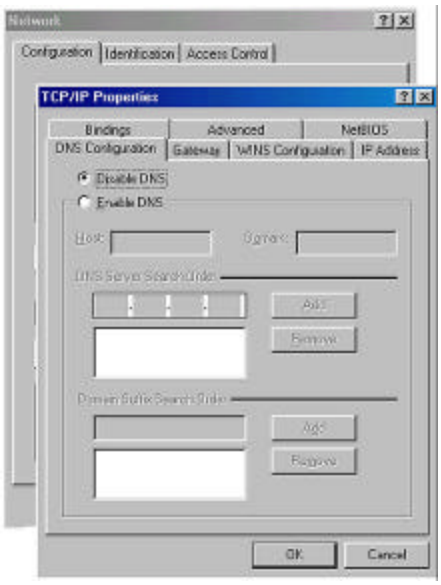
1. Select the **TCP/IP for MELCO WLI-PCM-L11 adapter** and click the **Properties** button.


TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:
192 . 168 . 0 . 2
Subnet Mask:
255 . 255 . 255 . 0
OK
Cancel

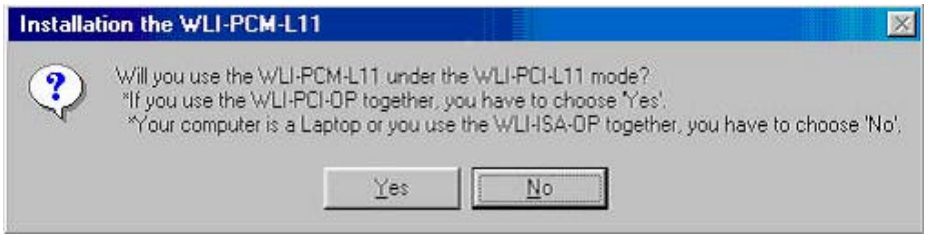
2. Select **Specify an IP address** and input the IP address and subnet mask below.

   IP address: 192.168.0.2
   Subnet Mask: 255. 255. 255. 0

3. Select the **Gateway** tab and **remove** all the installed gateways if there are any.



4. Select the **DNS Configuration** tab and select **Disable DNS**.
5. Click **OK** to close the **TCP/IP Properties** dialog box.
6. Click **OK** to close the **Network Properties** dialog box.

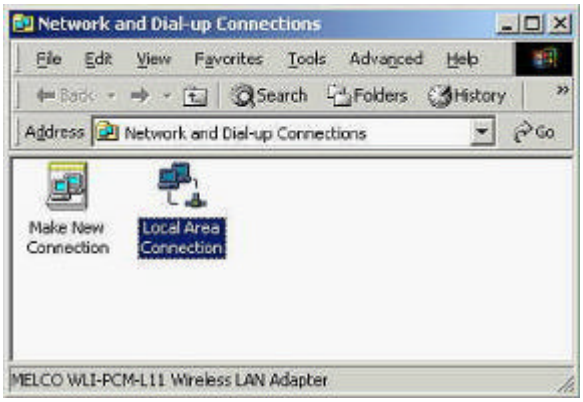

Installation the WLI-PCM-L11
Will you use the WLI-PCM-L11 under the WLI-PCI-L11 mode?
*If you use the WLI-PCI-OP together, you have to choose 'Yes'.
*Your computer is a Laptop or you use the WLI-ISA-OP together, you have to choose 'No'.
Yes
No

7. If you are using the WLI-PCI-OP, then click **Yes**. If your computer is a laptop or you use the WLI-ISA-OP, click **No.**
8. Restart your Computer for the new settings to take effect

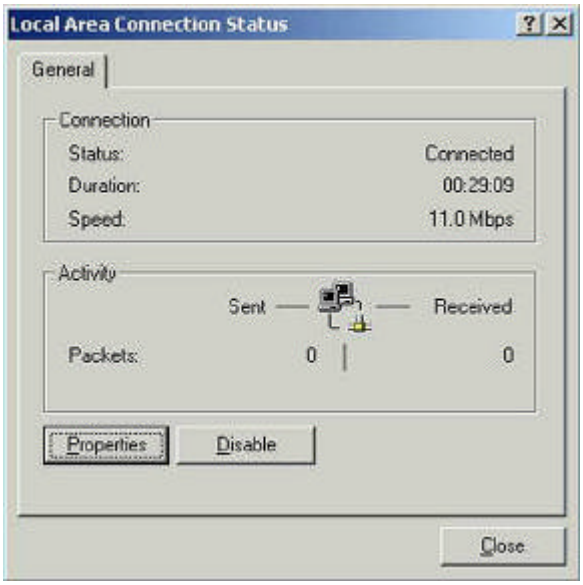
5.2 CHANGING TCI/IP SETTINGS IN WINDOWS 2000

Your Airstation Accesspoint is a Bridge with an IP Address of 1.1.1.1 by default. In order for you to connect to the Airstation Accesspoint and convert it to a Router, we recommend that you change your computer's TCP/IP settings to the static Address 192.168.0.2 and that you configure the Router's IP Address to 192.168.0.1.

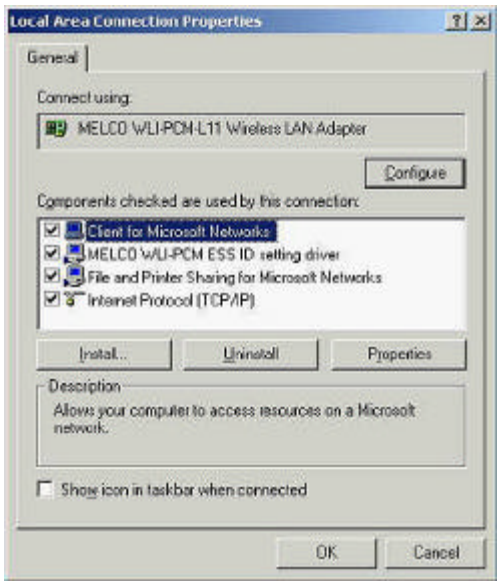
1. Click **Start** on the taskbar, and select **Settings** from the Start menu.
2. Select **Control panel**, and the Control Panel group appears.
3. Double-click the **Network and Dial-up Connection Icon.**



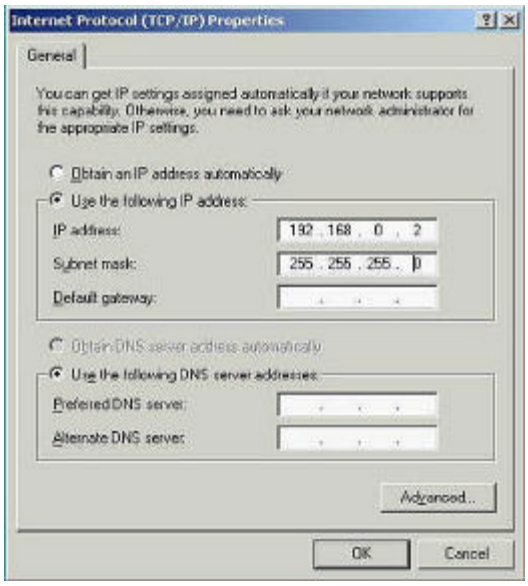
4. Double-click the **Local Area Connection Icon**



5. Click the **Properties** Button



6. Select **Internet Protocol (TCP/IP)** and then click the **Properties** button.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 2
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

7. Select **Specify an IP address** and input the IP address and subnet mask below.

   IP address: 192.168.0.2
   Subnet Mask: 255. 255. 255. 0

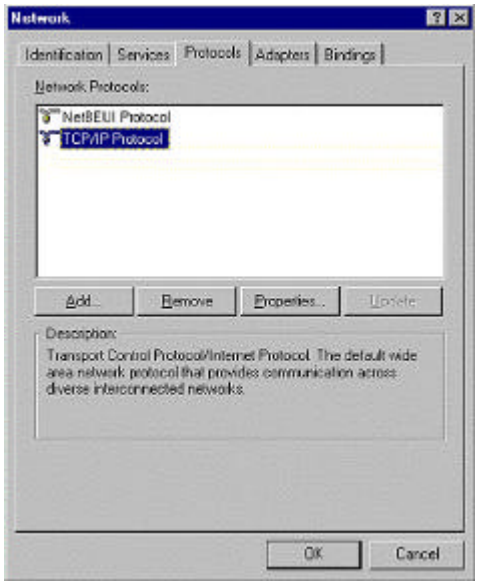
8. Click **OK** to close the **Internet Protocol (TCP/IP) Properties** dialog box
9. Click **OK** to close the **Local Area Connection Properties** dialog box
10. Click the **Close** Button to close the **Local Area Connection Status** Dialog Box
11. Restart your computer for the new settings to take effect.

5.3 CHANGING TCI/IP SETTINGS IN WINDOWS NT 4.0

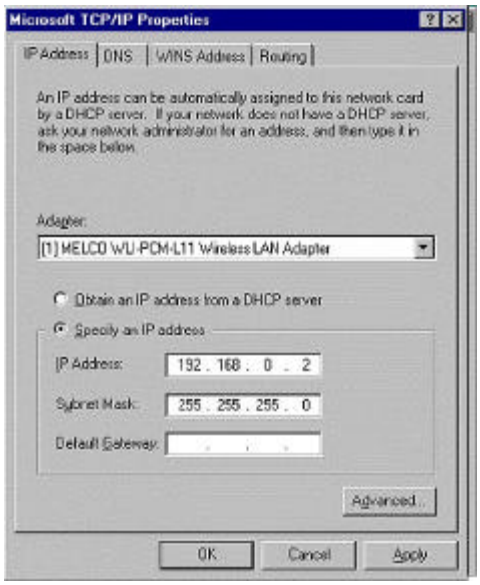
Your Airstation Accesspoint is a Bridge with an IP Address of 1.1.1.1 by default. In order for you to connect to the Airstation Accesspoint and convert it to a Router, we recommend that you change your computer's TCP/IP settings to the static Address 192.168.0.2 and that you configure the Router's IP Address to 192.168.0.1.

1. Click **Start** on the taskbar, and select **Settings** from the Start menu.
2. Select **Control panel**, and the Control Panel group appears.
3. Double-click the **Network Icon.**

4. Click the **Protocols** Tab



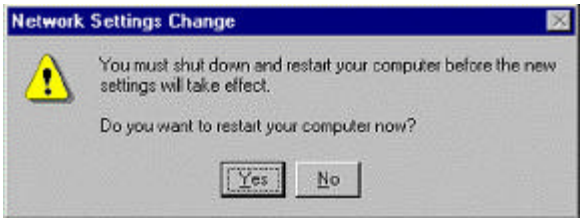
5. Select **TCP/IP Protocol** and click the **Properties** button.


Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
[1] MELCO WLI-PCM-L11 Wireless LAN Adapter
Obtain an IP address from a DHCP server
Specify an IP address
IP Address:
192 . 168 . 0 . 2
Subnet Mask:
255 . 255 . 255 . 0
Default Gateway:
Advanced...
OK
Cancel
Apply

6. Verify that the **MELCO WLI-PCM-L11 Wireless LAN Adapter** is selected.
7. Selecting **Specify an IP address** and input the IP address and subnet mask below.

IP address: 192.168.0.2
Subnet Mask: 255. 255. 255. 0

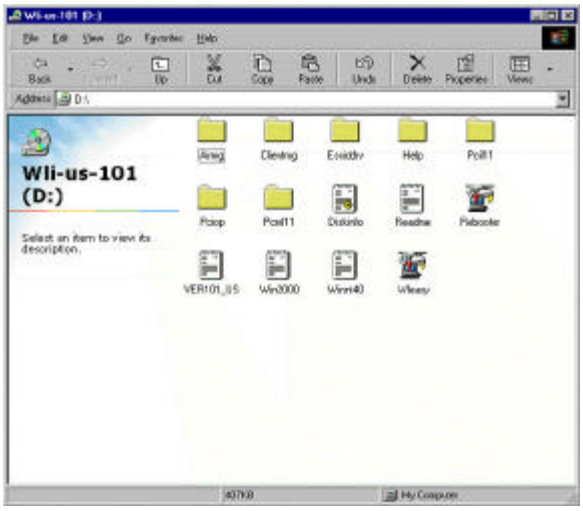
8. Click **OK**
9. Click **OK** to Close the **Network** Dialog Box


Network Settings Change
You must shut down and restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

10. Restart your computer for the new settings to take effect.

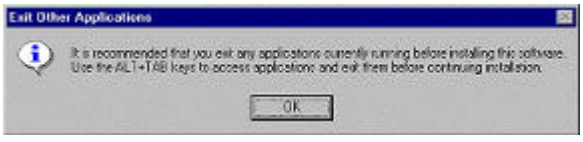
5.4 INSTALLING AIRSTATION MANAGER

1. Insert your Air Station Driver CD in your CD-ROM drive.
2. Double-click the **my computer** icon on your desktop.
3. Double-click on your **CD-ROM** drive.

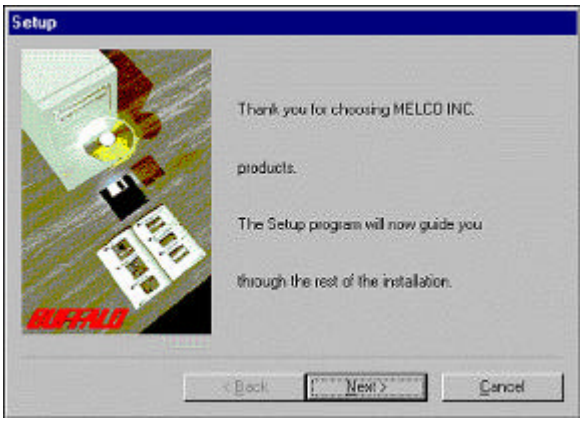


4. Double-click the **wleasy.exe** file in the current folder on your CD-ROM drive.

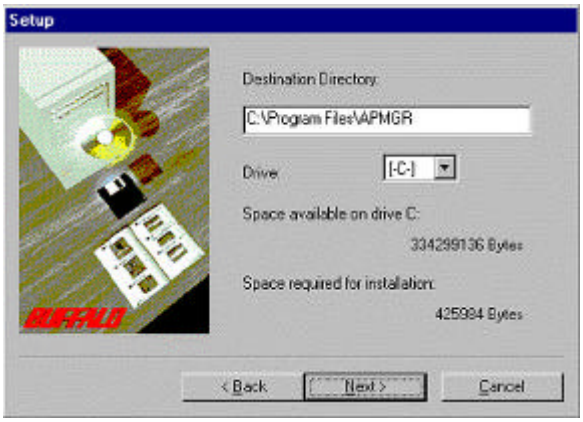
5. Select **Install the AirStation Manager.[A]** and click the **Next** button.


Exit Other Applications
It is recommended that you exit any applications currently running before installing this software.
Use the ALT+TAB keys to access applications and exit them before continuing installation.
OK

6. Exit any applications you have running and then Click **OK**.
   The AirStation Manager Installer will begin.

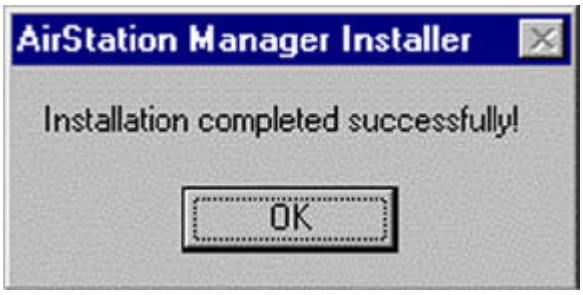


7. Click the **Next** Button.

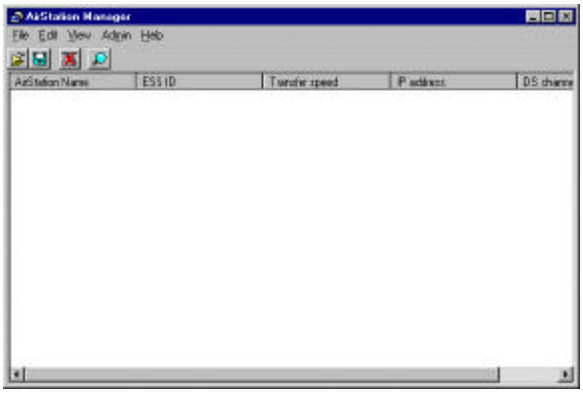


8. Click the **Next** Button

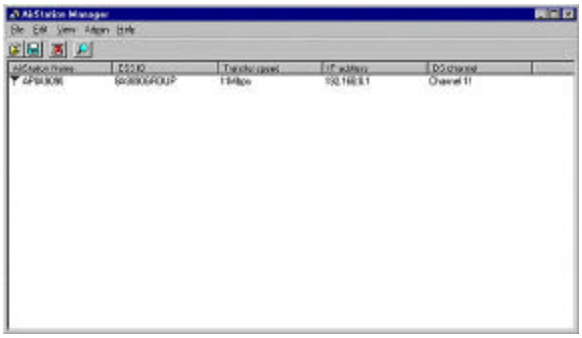
9. Click the **Start** button.
   The AirStation Manager Files will be installed on your system.



10. Click **OK** to complete the installation.
11. Restart your system when the installation is complete for the new settings to take effect.
12. Click **Start** on the taskbar. Select **Programs** from the Start menu. Select **Melco Airstation** and
    then select **AirStation Manager.**
    The AirStation Manager Window will open.



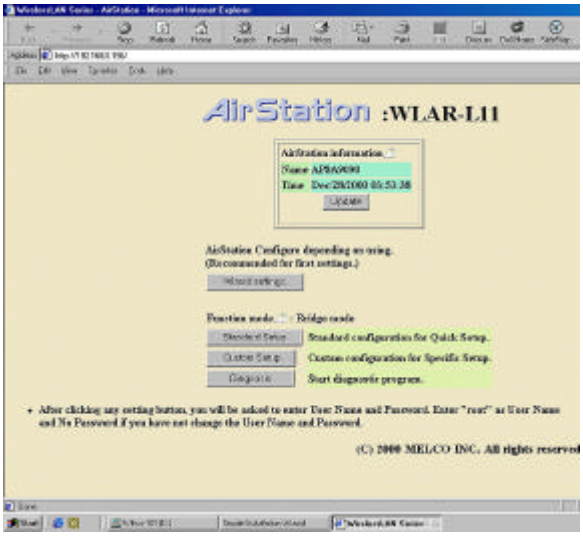
13. Click the **search** icon in the AirStation Manager toolbar to connect to the Airstation Accesspoint.



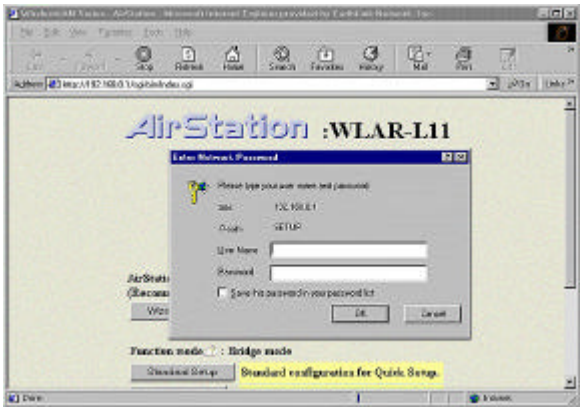
14. The AirStation Manager will search for the Airstation Accesspoint on the Network. Your Air station will be displayed in the Window. When connected to the Airstation Accesspoint , the Airstation Accesspoint Name will be black and an antenna mark will also be displayed.

15. To change the IP Address settings for your Airstation Accesspoint , select the **AirStation**. In the **Admin Menu**, select **IP Address** and configure your IP settings to 192.168.0.1. Click **OK**.

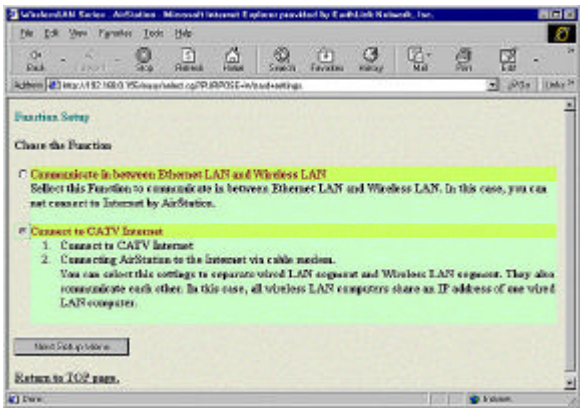
16. To change configuration settings, select the **AirStation**. In the **Admin Menu**, select **Configure AS.**



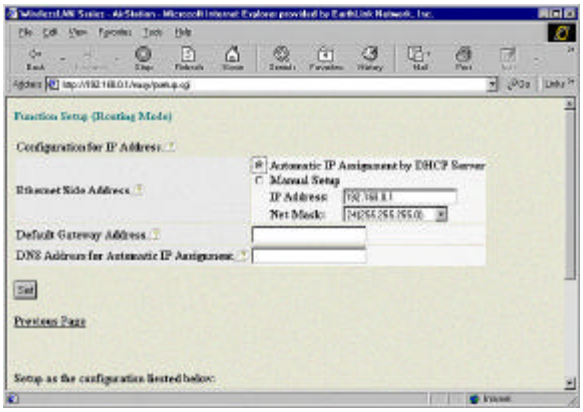
17. Click the **Wizard Settings** button.



9. A password request page will pop up. Type **root** in the User Name field, but leave the password field blank, and then click **OK**.


Function Setup
Share the Function
Communicate in between Ethernet LAN and Wireless LAN
Select this Function to communicate in between Ethernet LAN and Wireless LAN. In this case, you can not connect to Internet by AirStation.
Connect to CATV Internet
1. Connect to CATV Internet
2. Connecting AirStation to the Internet via cable modem.
You can select this settings to separate wired LAN segment and Wireless LAN segment. They also communicate each other. In this case, all Wireless LAN computers share an IP address of one wired LAN computer.
Return to TOP page.

10. Select **Connect to CATV Internet** and click the **Next Setup Menu** Button.



11. Select **Automatic IP Assignment by DHCP Server** and click the **set** button.
12. Click the **set** button.
13. **Setting completed** will be displayed. Close the Web browser.
14. You then need to change your computers TCP/IP settings back to "**Obtain an IP Address automatically".**

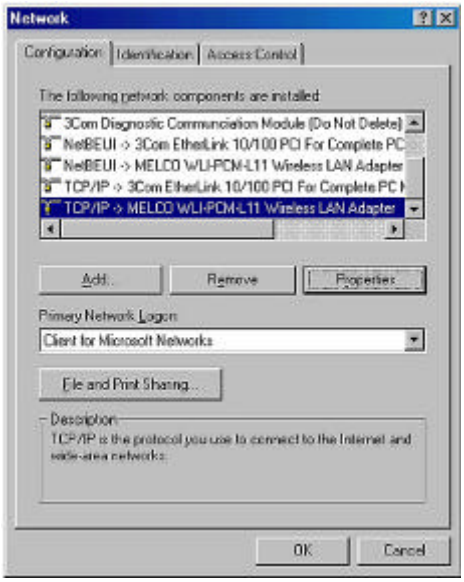
For any additional wireless workstations, you only need to install the Client Manager and configure the IP address to be assigned automatically by DHCP.

6. CONFIGURING THE AIRSTATION LOCAL ROUTER MODEL WLAR-L11-L

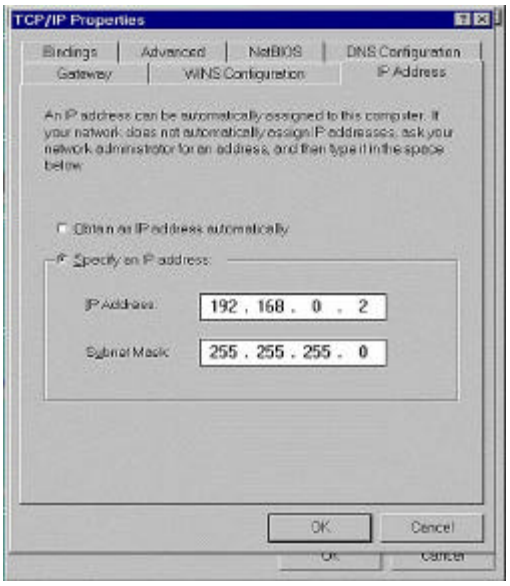
6.1 CHANGING TCI/IP SETTINGS IN WINDOWS 98 OR *ME*

Your Airstation Accesspoint is a Router with an IP Address of 192.168.0.1 by default. In order for you to connect to your Airstation Accesspoint, we recommend that you change your computer's TCP/IP settings to the static address 192.168.0.2.

1. Click **Start** on the taskbar, and select **Settings** from the Start menu.
2. Select **Control panel**, and the Control Panel group appears.
3. Double-click the **Network Icon.**
4. Select the **Configuration** tab.


Network
Configuration
Identification
Access Control
The following network components are installed:
3Com Diagnostic Communication Module (Do Not Delete)
NetBEUI -> 3Com EtherLink 10/100 PCI For Complete PC
NetBEUI -> MELCO WLI-PCM-L11 Wireless LAN Adapter
TCP/IP -> 3Com EtherLink 10/100 PCI For Complete PC
TCP/IP -> MELCO WLI-PCM-L11 Wireless LAN Adapter
Add...
Remove
Properties
Primary Network Logon:
Client for Microsoft Networks
File and Print Sharing...
Description
TCP/IP is the protocol you use to connect to the Internet and
OK
Cancel

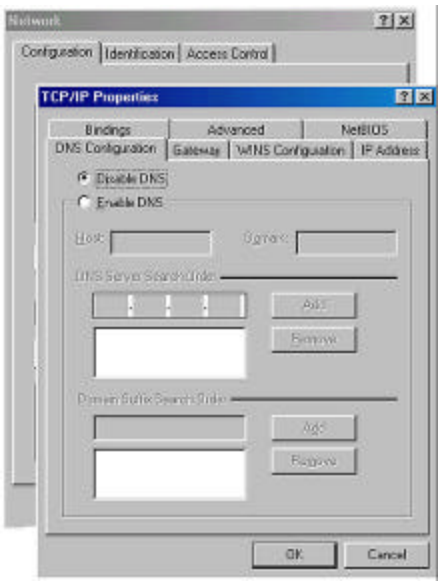
5. Select the **TCP/IP for MELCO WLI-PCM-L11 adapter** and click the **Properties** button.


TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:
192 . 168 . 0 . 2
Subnet Mask:
255 . 255 . 255 . 0
OK
Cancel

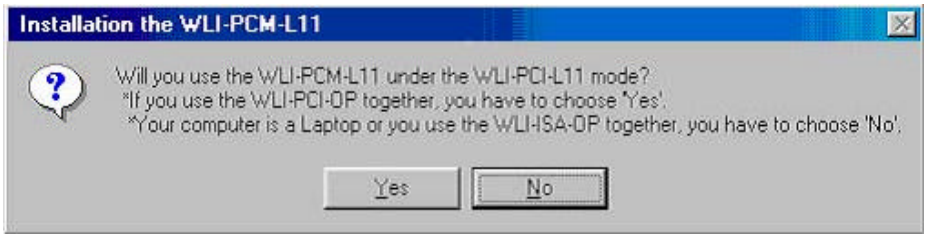
6. Select **Specify an IP address** and input the IP address and subnet mask below.

   IP address: 192.168.0.2
   Subnet Mask: 255. 255. 255. 0

7. Select the **Gateway** tab and **remove** all the installed gateways if there are any.



8. Select the **DNS Configuration** tab and select **Disable DNS**.
9. Click **OK** to close the **TCP/IP Properties** dialog box.
10. Click **OK** to close the **Network Properties** dialog box.

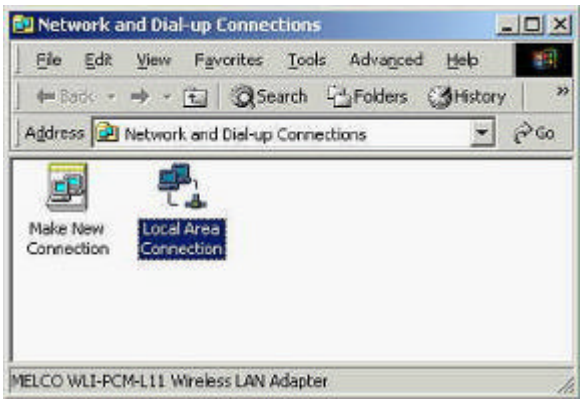

Installation the WLI-PCM-L11
Will you use the WLI-PCM-L11 under the WLI-PCI-L11 mode?
*If you use the WLI-PCI-OP together, you have to choose 'Yes'.
*Your computer is a Laptop or you use the WLI-ISA-OP together, you have to choose 'No'.
Yes
No

11. If you are using the WLI-PCI-OP, then click **Yes**. If your computer is a laptop or you use the WLI-ISA-OP, click **No.**
12. Restart your Computer for the new settings to take effect

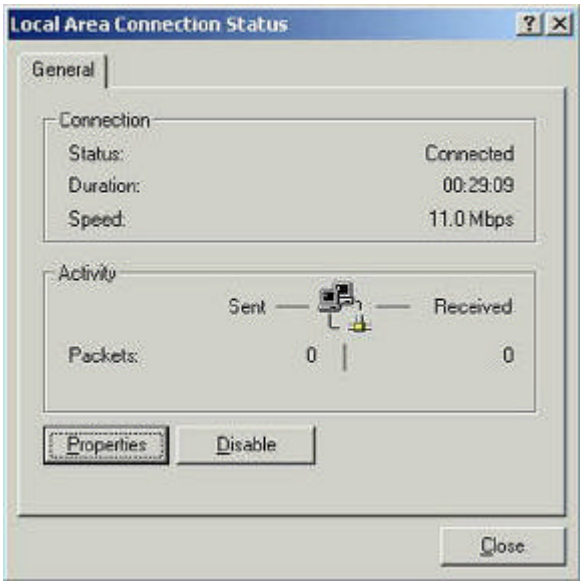
6.2 CHANGING TCI/IP SETTINGS IN WINDOWS 2000

Your Airstation Accesspoint is a Router with an IP Address of 192.168.0.1 by default. In order for you to connect to your Airstation Accesspoint, we recommend that you change your computer's TCP/IP settings to the static address 192.168.0.2.

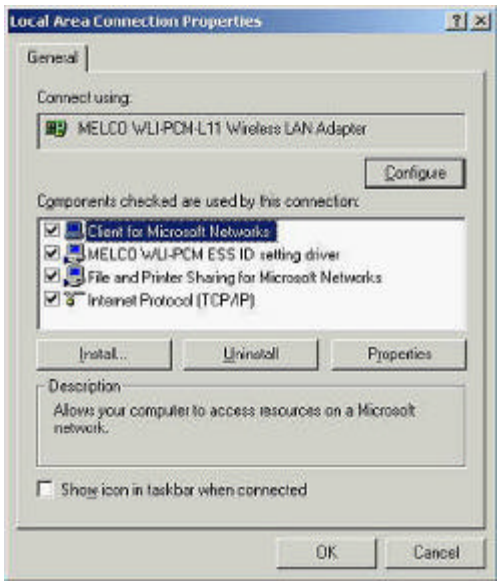
1. Click **Start** on the taskbar, and select **Settings** from the Start menu.
2. Select **Control panel**, and the Control Panel group appears.
3. Double-click the **Network and Dial-up Connection Icon.**



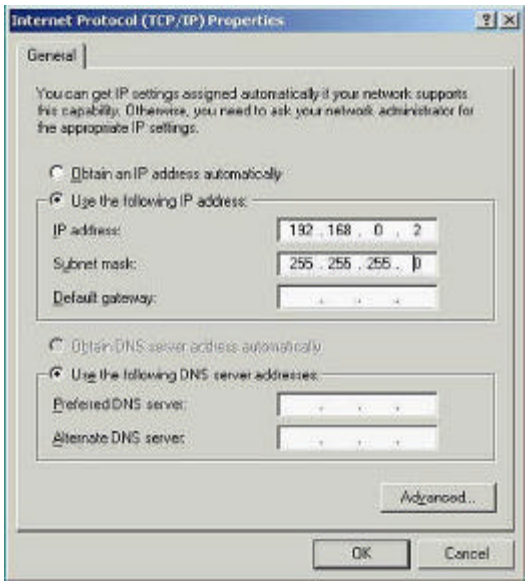
4. Double-click the **Local Area Connection Icon**



5. Click the **Properties** Button



6. Select **Internet Protocol (TCP/IP)** and then click the **Properties** button.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 2
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

7. Select **Specify an IP address** and input the IP address and subnet mask below.

   IP address: 192.168.0.2
   Subnet Mask: 255. 255. 255. 0

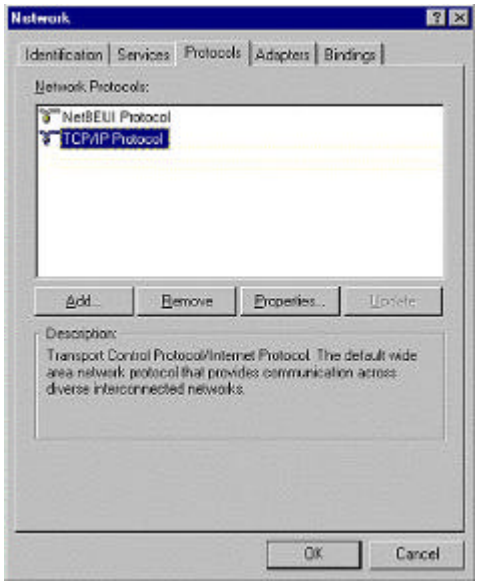
8. Click **OK** to close the **Internet Protocol (TCP/IP) Properties** dialog box
9. Click **OK** to close the **Local Area Connection Properties** dialog box
10. Click the **Close** Button to close the **Local Area Connection Status** Dialog Box
11. Restart your computer for the new settings to take effect.

6.3 CHANGING TCI/IP SETTINGS IN WINDOWS NT 4.0

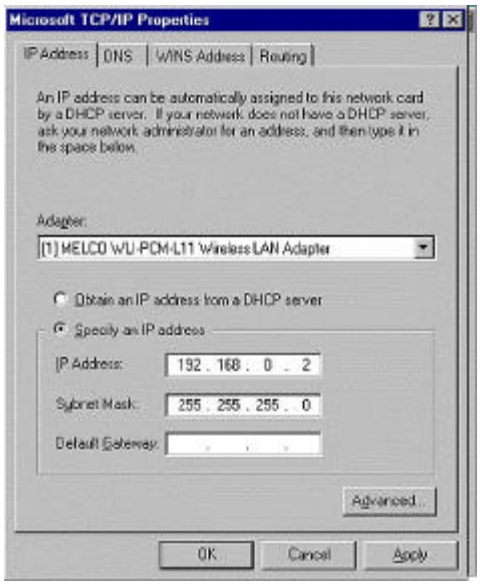
Your Airstation Accesspoint is a Router with an IP Address of 192.168.0.1 by default. In order for you to connect to your Airstation Accesspoint, we recommend that you change your computer's TCP/IP settings to the static address 192.168.0.2.

1. Click **Start** on the taskbar, and select **Settings** from the Start menu.
2. Select **Control panel**, and the Control Panel group appears.
3. Double-click the **Network Icon.**

4. Click the **Protocols** Tab



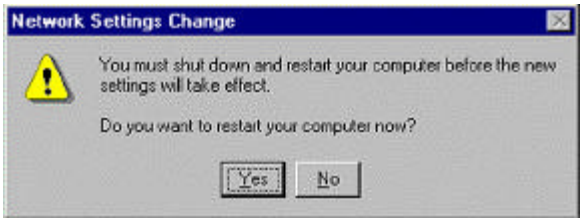
5. Select **TCP/IP Protocol** and click the **Properties** button


Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
[1] MELCO WU-PCM-L11 Wireless LAN Adapter
Obtain an IP address from a DHCP server
Specify an IP address
IP Address:
192 . 168 . 0 . 2
Subnet Mask:
255 . 255 . 255 . 0
Default Gateway:
Advanced...
OK
Cancel
Apply

6. Verify that the **MELCO WLI-PCM-L11 Wireless LAN Adapter** is selected.
7. Select **Specify an IP address** and input the IP address and subnet mask below.

IP address: 192.168.0.2
Subnet Mask: 255. 255. 255. 0

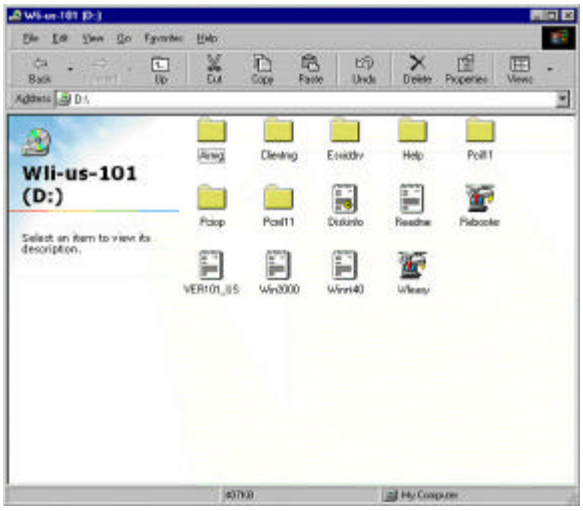
8. Click **OK**
9. Click **OK** to Close the **Network** Dialog Box


Network Settings Change
You must shut down and restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

10. Restart your computer for the new settings to take effect.

6.4 INSTALLING AIRSTATION MANAGER

1. Insert your Air Station Driver CD in your CD-ROM drive.
2. Double-click the **my computer** icon on your desktop.
3. Double-click on your **CD-ROM** drive.

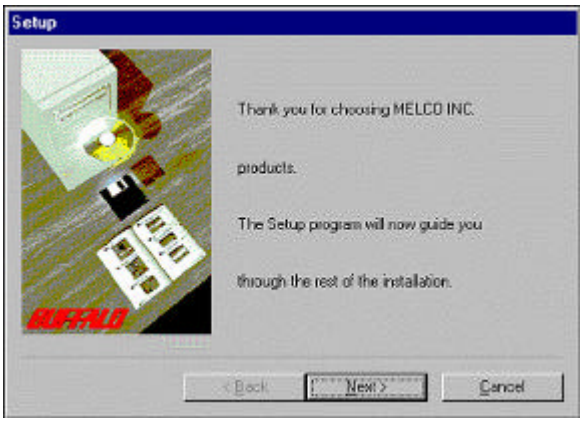


4. Double-click the **wleasy.exe** file in the current folder on your CD-ROM drive.

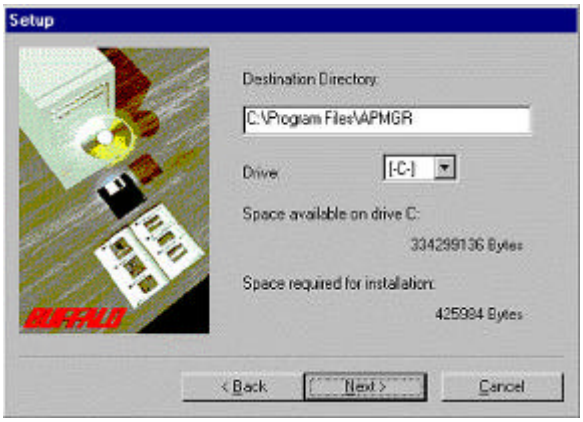
5. Select **Install the AirStation Manager.[A]** and click the **Next** button.

Exit Other Applications
It is recommended that you exit any applications currently running before installing this software.
Use the ALT+TAB keys to access applications and exit them before continuing installation.
OK

6. Exit any applications you have running and then Click **OK**.
   The AirStation Manager Installer will begin.

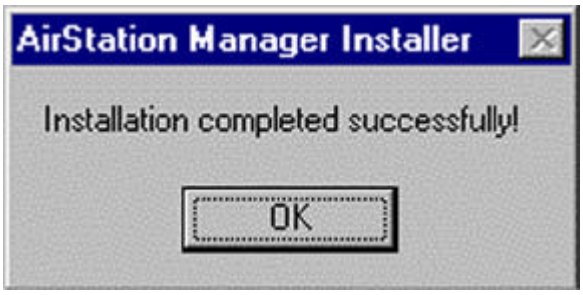


7. Click the **Next** Button.

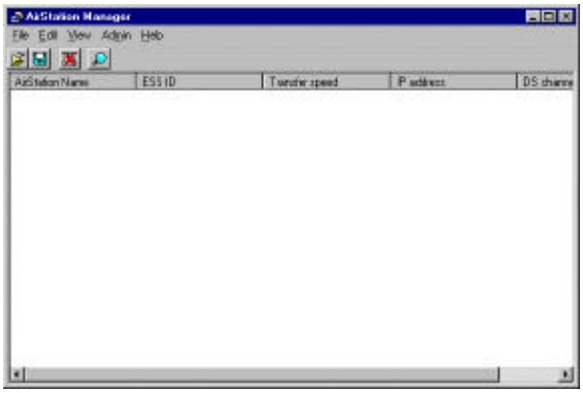


8. Click the **Next** Button

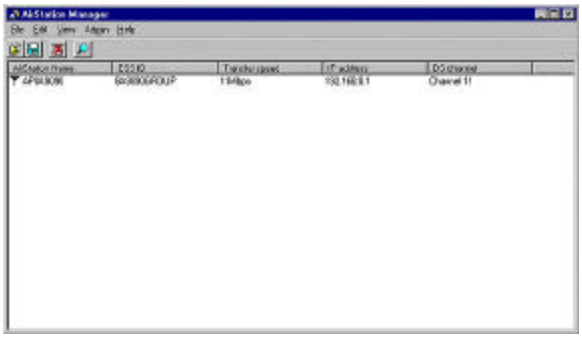
9. Click the **Start** button.
   The AirStation Manager Files will be installed on your system.



10. Click **OK** to complete the installation.
11. Restart your system when the installation is complete for the new settings to take effect.
12. Click **Start** on the taskbar. Select **Programs** from the Start menu. Select **Melco Airstation** and
    then select **AirStation Manager.**
    The AirStation Manager Window will open.



13. Click the **search** icon in the Airstation Manager toolbar to connect to the Airstation Accesspoint.



14. The AirStation Manager will search for the Airstation Accesspoint on the Network. Your Air station Accesspoint will show up in the Window. When connected to the Airstation Accesspoint , the Airstation Accesspoint Name will be black and an antenna mark will also be displayed.

15. To change the IP Address settings for your Airstation Accesspoint , select the **AirStation**. In the **Admin Menu**, select **IP Address** and configure your IP settings to 192.168.0.1. Click **OK**.

16. To change configuration settings, select the **AirStation**. In the **Admin Menu**, select **Configure AS.**

17. Click the **Standard Setup** button.
18. Select **Automatic IP Assignment by DHCP Server**
19. Select **Use automatic IP address assignment for LAN** and then click the **set** button.
20. **Setting completed** will be displayed. Close the Web browser.
15. You then need to change your computers TCP/IP settings back to "**Obtain an IP Address automatically".**

For any additional wireless workstations, you only need to install the Client Manager and configure the IP address to be assigned automatically by DHCP.

6.5 PPTP SETUP For WLAR-L11-L model

If you do not see the [Protocol Number] option, please visit our web site at www.buffalotech.com for free firmware upgrade

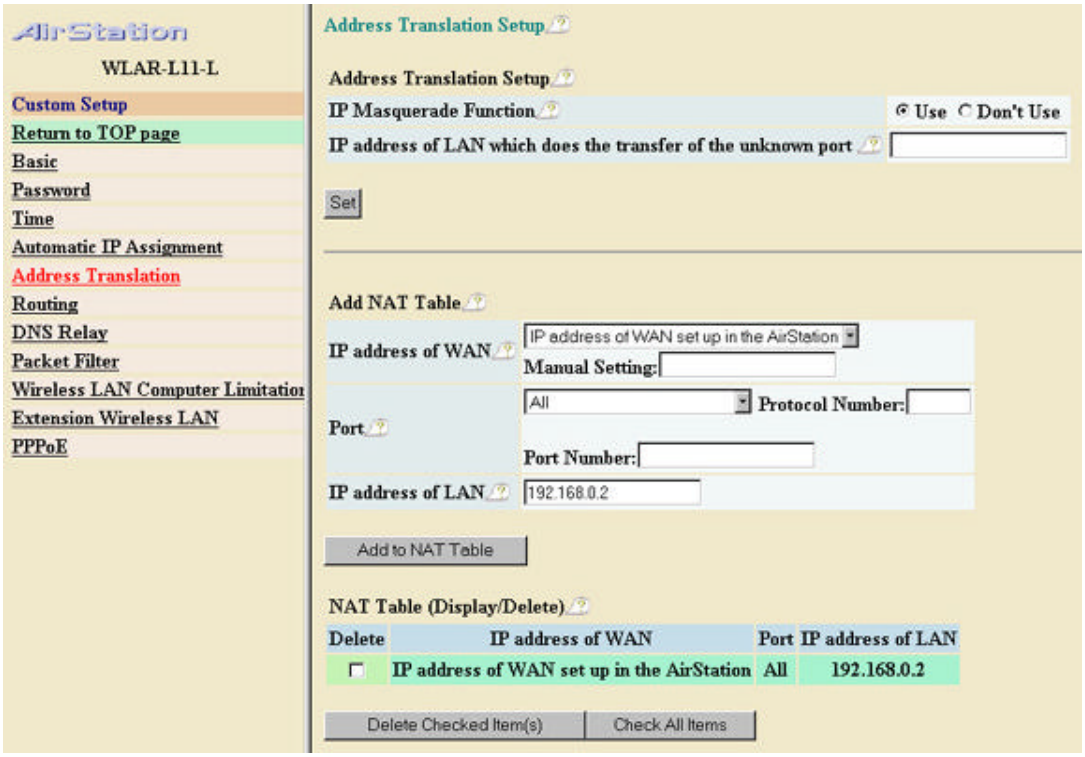
PPTP (Point-to-Point Tunneling Protocol) is a protocol (set of communication rules) that allows corporations to extend their own corporate network through private "tunnels" over the Internet. Effectively, a corporation uses a wide-area network as a single large local area network. A company no longer needs to lease its own lines for wide-area communication but can securely use the public networks. This kind of interconnection is known as a virtual private network.
Since PPTP is based on Point-to-Point Protocol, only one computer in your LAN can access the VPN server at a time.

Setting Procedure

1. Follow the installation guide to connect to the HTTP Admin console thru your browser. The default address is **192.168.0.1.**

2. Click **Custom setup** and input **"root"** as the username with no password

3. Click **Address Translation** on the bottom in the left column.

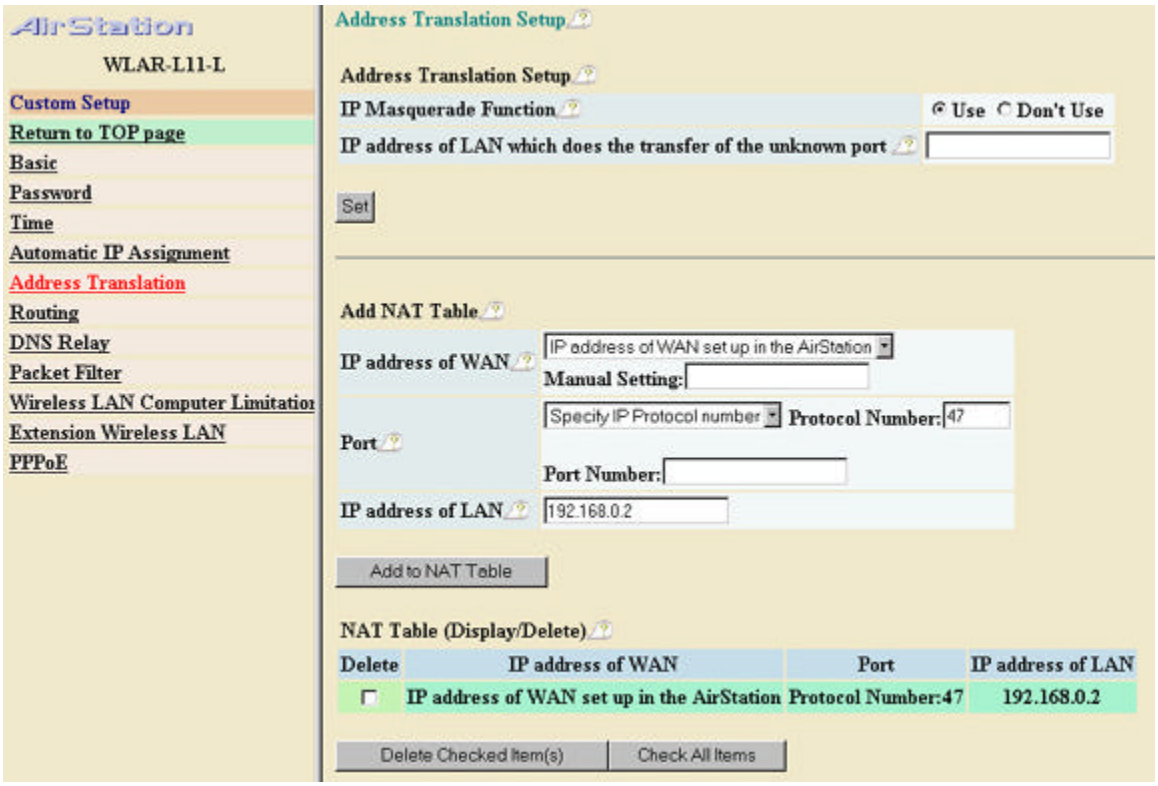


4. Input the IP address of LAN computer that needs VPN (PPTP) connection under **IP address of LAN** and then click **Add to NAT table**.

5. Click **Return** and verify that the NAT Table address for **IP address of LAN** appears to be the IP address of the LAN computer.

6. Your Airstation AccessPoint is now set to allow all Protocols to pass through for your computer.

7. If you prefer to limit the access of Protocols to pass through, please select **Specify IP Protocol number** from **Port** setting and specify the **Protocol Number**



For example:

ICMP:	Protocol Number 1
IGMP:	Protocol Number 2
TCP:	Protocol Number 6
UDP:	Protocol Number 17
GRE3 (PPTP):	Protocol Number 47

The Generic Route Encapsulation (GRE) protocol is used in conjunction with Point-to Point Tunneling Protocol (PPTP) to create virtual private networks (VPNs) between clients or between clients and servers.

6.6 PPPoE SETUP FOR WLAR-L11-L MODEL

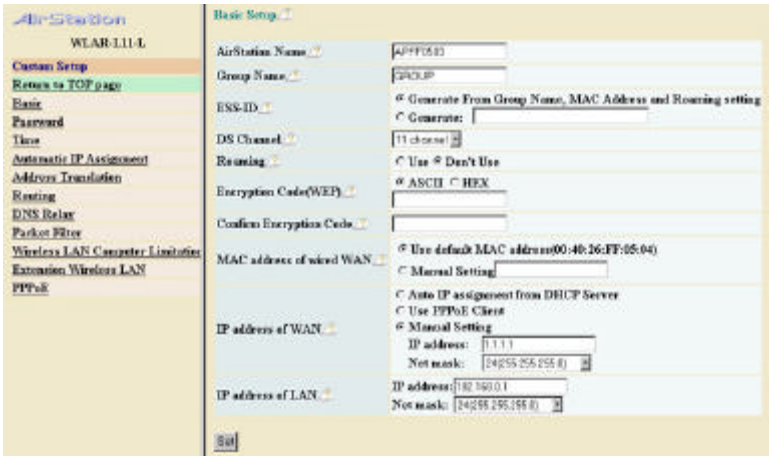
If you do not see the PPPoE option, please visit our web site at www.buffalotech.com for a free firmware upgrade

The Point-to-Point Protocol over Ethernet (PPPoE), is a peer-to-peer protocol used on an Ethernet Network, instead of a regular phone line. Some ISPs require PPPoE in order for customers to connect to the Internet. Please consult your Internet service provider to determine your requirement. If PPPoE is necessary, the parameters will be set in the AirStation admin console instead of your computer. For example: Instead of inputting the **User Name** and **Password** in your computer, input this information in the AirStation Admin console.

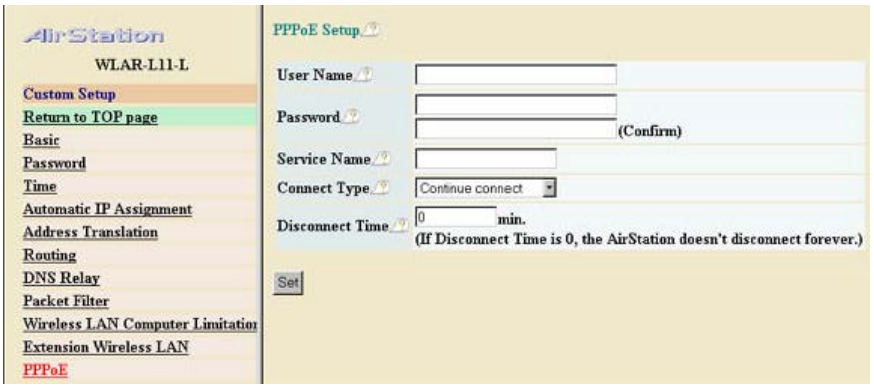
Setup Procedure

8. Follow the installation guide to connect to the HTTP Admin console through your browser. The Default IP address is **192.168.0.1.**

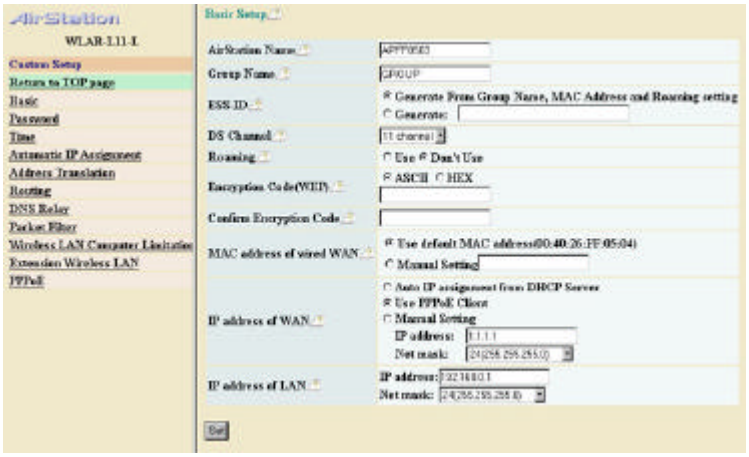
9. Click **Custom setup** and input **"root"** as the username with no password



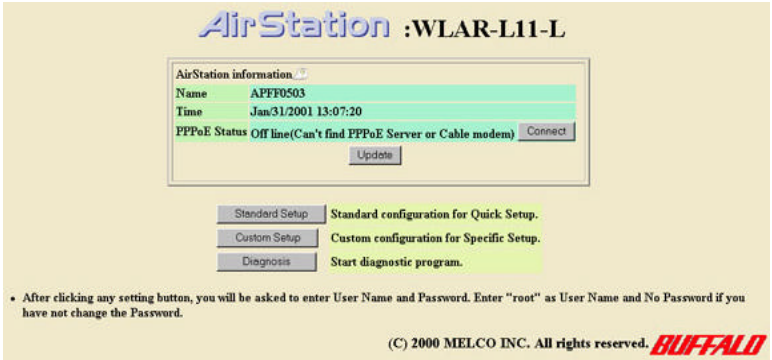
10. Click **PPPoE** in the left column bottom.



11. Input the "**User Name**" and "**password**" given by your Internet service provider. Reenter the "**password**" in the **"confirm"** textbox and then click **Set.**
12. Click **Return** and then Click **Basic**. The basic setting screen will be shown.



13. Select **use the PPPoE client function** for the WAN-side IP address acquisition method, and then click **set**.
    The Setting will be completed and the Airstation Accesspoint will be rebooted.
14. After closing the web browser, it is recommended to recheck the setting parameters again.
15. If **PPPoE Status** appears in the screen, the setting is completed successfully.


AirStation :WLAR-L11-L
AirStation information
Name APFF0503
Time Jan/31/2001 13:07:20
PPPoE Status Off line(Can't find PPPoE Server or Cable modem)
Connect
Update
Standard Setup
Standard configuration for Quick Setup.
Custom Setup
Custom configuration for Specific Setup.
Diagnosis
Start diagnostic program.
After clicking any setting button, you will be asked to enter User Name and Password. Enter "root" as User Name and No Password if you have not change the Password.
(C) 2000 MELCO INC. All rights reserved.
BUFFALO

6.7 Glossary of Terms Used in the PPPoE settings

User Name – This is the user specified name that is to be recognized by your Internet service provider. Up to 64 letters are permissible.

Password - This is the user specified password that is to be recognized by your Internet service provider. Use the same password in the "confirm" box. Up to 64 letters are permissible.

Service Name - If more than 2 PPPoE servers exist in the system, a specific server can be selected for providing your PPPoE service. If a specific server is not selected (you leave the box blank), the Airstation Accesspoint will pick a server and connect to the server automatically. If your Internet service provider specifies nothing, leave it blank.

Connection Method – Set the specific timing that enables connecting to the PPPoE server.

Continuous connection – Connecting to the PPPoE server as soon as the device is up and keeping that connection. The system will re-connect automatically even the user tries to disconnect manually from the screen.

On demand connection – The system connects to the PPPoE server only when the user wants to connect to the Internet.

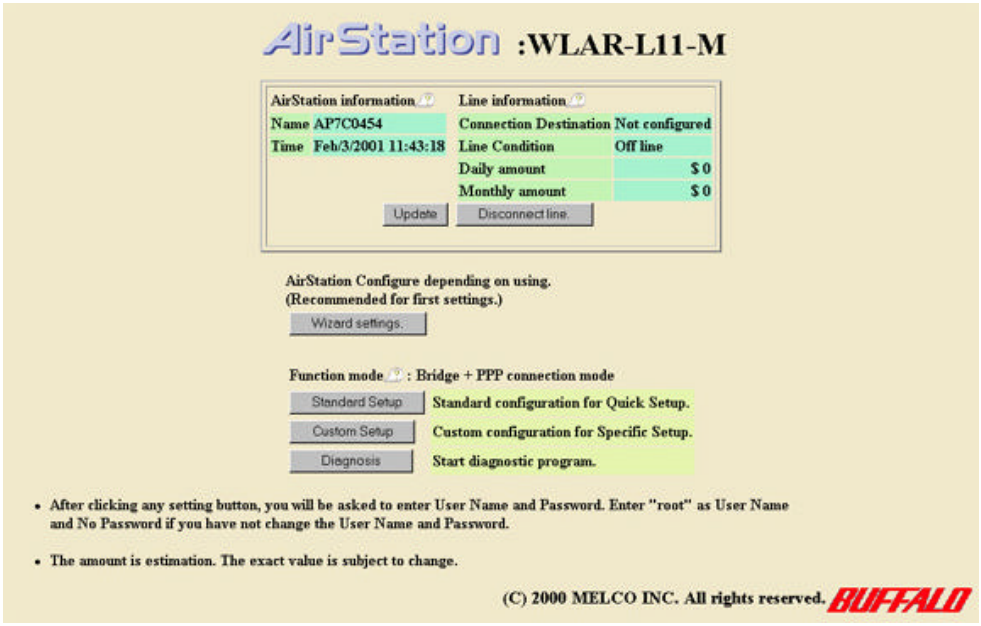
Manual connection - The system connects to the PPPoE server only when the user clicks the **connect** button on the setting screen.

Cut off period - The user can set the cut off period that disconnects the connection automatically after the communication becomes inactive. If the user selects the continuous connection in the connection method, the cut off period will be ignored. If the user wishes not to cut off, the user can input [0] in the box.

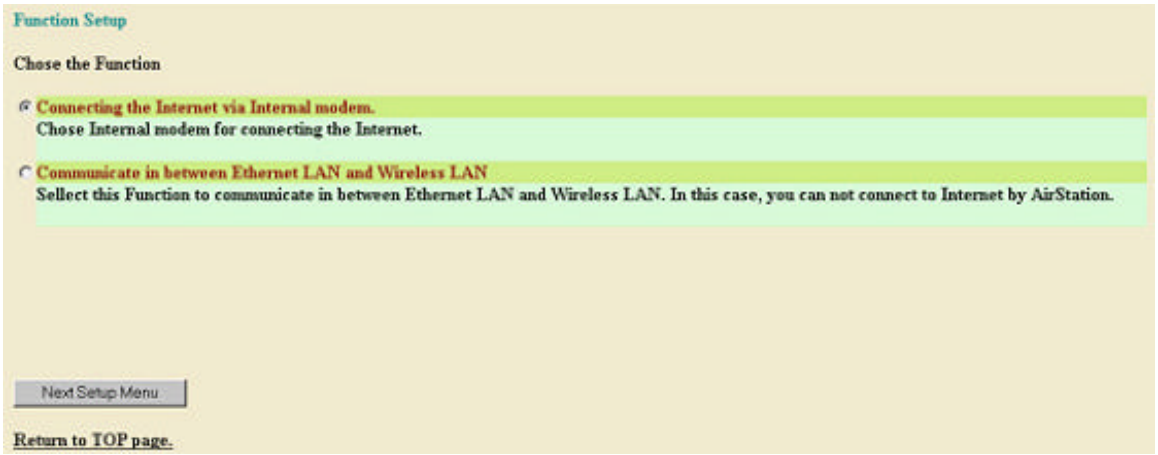
7. CONFIGURING THE AIRSTATION ANALOG MODEM MODEL WLAR-L11-M

Your Airstation Accesspoint has an IP address of 1.1.1.1 by default. In order for you to connect to the Airstation Accesspoint, we recommend that you change your computer's TCP/IP settings to the static address 192.168.0.2 and configure your Airstation's IP address to 192.168.0.1.

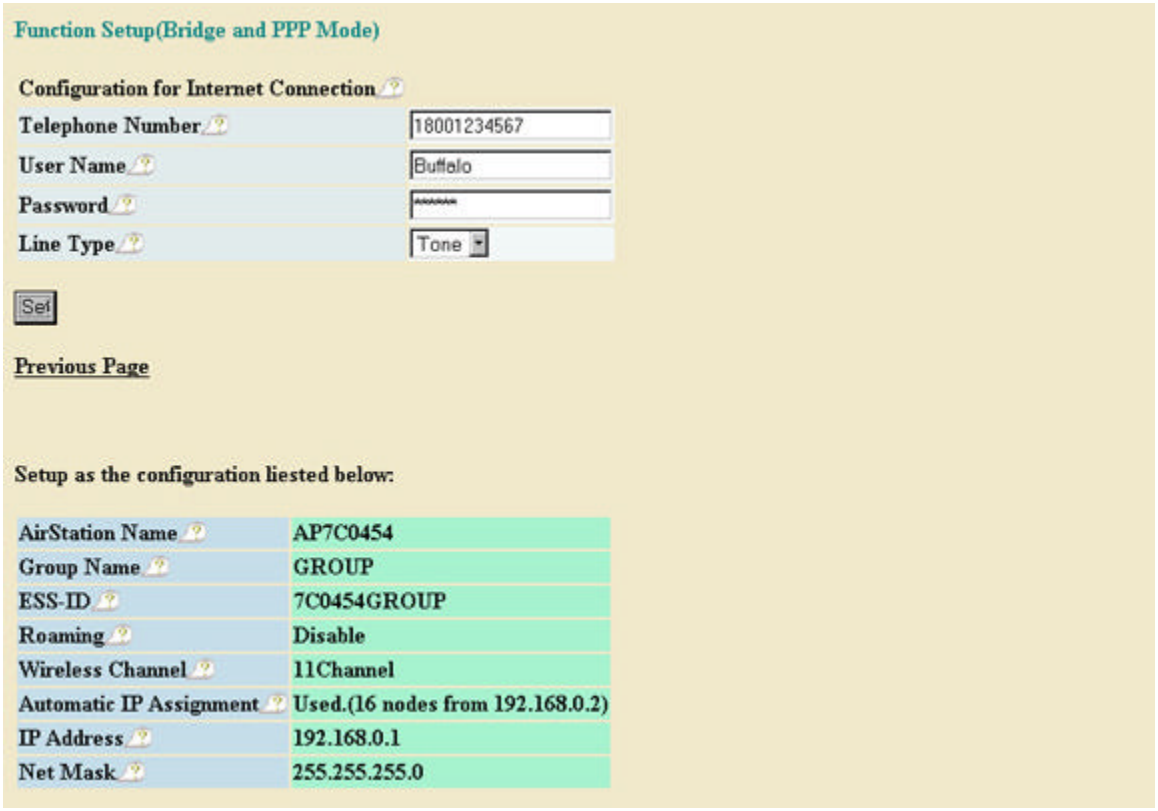
1. Please follow the **WLAR-L11** instruction until you see the **Admin Menu** below and following the rest of the instructions on this page.


AirStation :WLAR-L11-M
AirStation information
Name AP7C0454
Time Feb/3/2001 11:43:18
Line information
Connection Destination Not configured
Line Condition Off line
Daily amount $0
Monthly amount $0
Update
Disconnect line
AirStation Configure depending on using.
(Recommended for first settings.)
Wizard settings.
Function mode : Bridge + PPP connection mode
Standard Setup
Standard configuration for Quick Setup.
Custom Setup
Custom configuration for Specific Setup.
Diagnosis
Start diagnostic program.
After clicking any setting button, you will be asked to enter User Name and Password. Enter "root" as User Name and No Password if you have not change the User Name and Password.
The amount is estimation. The exact value is subject to change.
(C) 2000 MELCO INC. All rights reserved.
BUFFALO

2. Click the **Wizard Settings** button.
3. A password request page will pop up. Type **root** in the User Name field, but leave the password field blank, and then click **OK.**


Function Setup
Chose the Function
Connecting the Internet via Internal modem.
Chose Internal modem for connecting the Internet.
Communicate in between Ethernet LAN and Wireless LAN
Sellect this Function to communicate in between Ethernet LAN and Wireless LAN. In this case, you can not connect to Internet by AirStation.
Next Setup Menu
Return to TOP page.

4. Select **Connecting to the Internet via Internal modem** and click the **Next Setup Menu** Button.



5. Input the necessary items and click **Set** Button.

For any additional wireless workstation, you only need to install the Client Manager and configure the IP address to be assigned automatically by DHCP.

8. Apple Installation

Your Apple Computer must either have an Airport card or PCMCIA wirelesses card that is 802.11b compliant installed.

1. Turn on your Computer.
2. Click the **Apple** icon on your toolbar and Select **Airport.**
3. In the **Airport Network** window, select **Network** area.
4. Find a 6-character ID number with the word **GROUP** attached to it and click it.
5. Click the **Apple** icon on your toolbar. Select **Control Panel**, and then click **TCP/IP**.
6. Verify that it says, **Connect via Airport** at the top.
7. Set the configuration to **Manual**. Set the IP address to **1.1.1.2**, the subnet mask to **255.255.255.0.** and leave the router address Blank. For the Local Router, use IP Address **192.168.0.2**
8. Open up a Web Browser to connect to the Airstation Accesspoint through IP Address and follow the wizard setup. Use 1.1.1.1 for the Router and 192.168.0.1 for the Local Router.
9. Follow the instructions to set up the Airstation Accesspoint from the Router or Local Router section.
10. Click the **Apple** icon in your toolbar. Select **Control Panel**, and then click on **TCP/IP**.
11. Change the configuration to **DHCP** if you have a DHCP server on your LAN or leave it on the manual setting and configure it to your LAN settings.
12. Close the **TCP/IP** window and save when prompted to.
13. This should give you connection to your Internet and/or your wired LAN.

Address:
1977 W. 190th Street
Suite 100
Torrance, CA 90504

Website:
www.buffalotech.com

Email:
Sales - sales@buffalotech.com
Technical Support - info@buffalotech.com

Phone:
Sale Tel - 310-965-0448
Sale Tel - 800-508-1110
Sale Fax - 310-965-0497
Tech Support Line - 800.934.2471